



30 October 1972

Management Analysis Report

Department of the Army

Department of the Navy

Department of the Air Force

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DEPARTMENT OF DEFENSE IN-HOUSE RDT & ACTIVITIES.

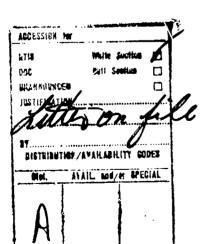
10 Harold F. Davidson

30 October 1072

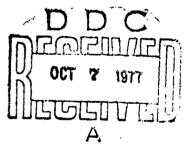
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FOREWORD

For this report

This report was prepared by the Department of the Army at the request of the Director of Defense Research and Engineering. The Departments of the Army, the Navy and the Air Force provided comprehensive data on the finances, manpower and facilities of their organizations that perform research, development, test and evaluation (RDT E). In addition, they briefly described each activity's mission, current important programs. functions, and equipment capabilities. The statistical data relate to the past and current fiscal years, i.e. 1972 and 1973.

Each in-house RDT/E activity of the Department of Defense is described on one page in this compilation. The data for FY 1972 are summarized in tables preceding the main text.

This edition is the seventh of a series that started in 1966. Information was submitted on key-punched cards, and the report's preparation was thus entirely automated—with some manual correction of typographical errors and clarification of obscure abbreviations and contractions.

All current DoD RDT&E activities are listed in the Contents alphabetically within each Department. Some new organizational names appear in this issue and others have been changed since last year; for this information, see Appendix 1.

Appendix 11 contains the definitions given in DoD instruction 7700.9 and employed as the basis for these data. Appendix 111 lists selected standard abbreviations and acronyms.

Thanks are extended to Mr. Donald J. Ertel, Office, Chief of Research and Development, Department of the Army, for his unselfish and unstinting assistance in checking the raw data submitted by the Services and to Ms. Marilyn Rurak and Mr. Eugene S. Groseclose, Jr., for coercing an obstreperous computer into providing an accurate, legible report. Thanks are also due Ms. Cheryl Gellerson for her kind assistance and patience in correcting numerous typegraphical errors.

Data for In-House RDT&E Activities," dated 18 August 1972.

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SUMMARY

DEPARTMENT OF DEFENSE IN-HOUSE ROTGE FACILITIES

PROGRAM DATA FOR FY 1972

| | (MILLIONS) |
|---------------------------------|------------|
| TOTAL ANNUAL LABORATORY PROGRAM | 4379.696 |
| | 2318.807 |
| TOTAL INHOUSE PROGRAM | |
| TOTAL ROTEE PROGRAM | 2848.035 |
| TOTAL INHOUSE ROTEE | 1514.803 |
| | 585-926 |
| TOTAL ANNUAL OPERATING COST | JUJE 7EU |

PERSONNEL DATA (END OF FY 1972)

| PER SONNEL | AUTHORIZED | TOTAL | TOTAL |
|------------|------------|-------|---------------|
| | Strength | PHD | PROFESSIONALS |
| MILITARY | 26338 | 1188 | 8653 |
| CIVILIAN | 81628 | 3071 | 28881 |
| TOTAL | 107966 | 4259 | 37534 |

PHYSICAL FACILITIES (END OF FY 1972)

| ACRES | 9438879 |
|---------------------------------------|------------------------------------|
| SPACE (THOUSANDS OF SQ FT) | |
| LABORATORY ADMINISTRATIVE OTHER | 28665.763 9573.256 53290.477 |
| TOTAL | 91529.496 |
| COST (MILLIONS) | |
| REAL PROPERTY Equipment | 3462.161 3655.879 |
| TOTAL | 7118.040 |

| | | FUNDIN | FUNDING DATA (' | CHILL FONS | 3 | | PERS | ERSONNEL | DATA | | |
|--|--|------------|---|------------|----------|----------|------------|--|--------------|------------|---|
| | | | TOTAL | TOTAL | INHOUSE | - 1 | TOTAL P | | • | ROF | P. OF |
| | . SUCKEP. AL. | 101 AL | 398°T | 1.285 | 1,285 | 1 F | |) 1 1 1 1 1 1 1 1 1 1 | - | 1 S | <u>*</u> |
| . II | PASO, TEXAS | 7.999 | 7.979 | 5.057 | 5.037 | 345 | | | | 45 | ======================================= |
| ! | MOUNTAIN VIEW, CAL. | 43.641 | 13.458 | 43.021 | 12.638 | 34 | 575 | | 56 | 34 | 236 |
| ECTRUMICS BUARD FI | A STAGGA NACTA | 3.490 | 4.090 | 1.488 | 994-1 | 207 | 2 6 | - | . | | |
| ų. | FI. CHUX. KENTIKKY | 5.647 | 5.647 | 2.186 | 2,186 | 176 | ŝ | | | D 6 | - 0 |
| _ | - | 12.219 | 11.034 | 9.220 | 8.035 | 483 | 258 | | 1 | ę | 115 |
| /ITY | · Cál. | 4.478 | 4.478 | 3.689 | 3.689 | 62 | 116 | | -1 | 23 | 56 |
| | ER | 9.540 | 6.935 | 6.426 | 3.821 | 221 | 133 | | 0 | ‡ | * |
| _ | | 20.956 | 18.146 | 12.699 | 11.294 | 52 | 251 | | so, | 1 | 160 |
| ORIES | | 30.868 | 20.928 | 30.609 | 20-808 | 15 | 6-2 | | 2 | 79 | 9 |
| | | 15.334 | 13.665 | 9-89 | 8.332 | m | 610 | | . | ~ | 527 |
| COALING AND CHEMICAL LABORATORY | ASERDEEN PROV GR. MD. | 010.0 | 1.738 | 7.699 | 1.47 | ۰; | n : | -4 6 | 7 : | ۰; | 82 |
| | ROVERS TABLE | 1.450 | 541.0 | 2.136 | 775 | Ŧ | 9 | ٧. | " | 9 6 | Ď. |
| COLISITION CABS | - HUNNIUGH - | 33.000 | 006-61 | 33.000 | 13-500 | 80 e | 312 | - - (| • | 53 | 22.1 |
| × 04.74.40 | TILL BUNDOUND NO. | 30.10 | 070 | 004416 | 008-61 | 67 | 2 | | ۲, | 7. | ŝ |
| EARCH LABURATURY U | DANA, IL. | | 600.0 | 678.0 | 10/ | 9 | 9 9 | | | • ! | * |
| ร์ เ | | 15.807 | 10.41 | 13.491 | 12-666 | 355 | 288 | | <u>.</u> | 117 | 2 |
| ĭ | COMMON AND AND AND AND AND AND AND AND AND AN | 24.000 | 20.00 | 22.60 | 0000 | 170 | 5711 | | | e d | n : |
| | FI. HUACHUCA, AK. | 14.129 | V . C . C . C . C . C . C . C . C . C . | 7-1:5 | 040 | 10 C | 177 | 5 0 | | 9 9 | 10. |
| | | 7000 | 710-01 | 27.25 | 086-47 | 6: | | | | , | 7 6 |
| ELECTRONICS TECHNOLOGY AND DEFICES LAG | TO SECURITION OF THE PARTY OF T | 750.77 | 12.373 | 12 25 | 467-71 | 15 | | | | ٠: | 700 |
| CASINCES CATEBOLAS EXPEDITED CLASSES | ي د | 71.0.46 | 22.02 | 13.620 | 12 440 | 67 | 100 | | 77 | 7 | 101 |
| • | CASBONG MISS. | 477.4 | C 10 - 7 7 | 799 | 45.403 | 0 m | 757 | | | | , כ |
| . 4 | DHILLDRY DA. | 15.155 | 26.244 | 37. 246 | 474-1 | 600 | 9 | | | | 124 |
| 3 | MASHINGTON, O.C. | 77, 783 | 60-845 | 45.986 | 33,530 | (0 | 1505 | | | | 5.33 |
| • | SERDEEN PROV GR. MD. | 3.629 | 3.253 | 3.208 | 2.832 | 30 | 100 | | 9 | | 5 |
| | ¥. | 2.746 | 2.631 | 1.294 | 1.179 | 184 | 55 | 0 | 0 | | ~ |
| 3 | MASHINGTOR, D.C. | 1.384 | 1.384 | 0.715 | 0.715 | 26 | 52 | | - | 30 | ø |
| E | FT. SAM HOUSTON'S TX. | 2.799 | 2.799 | 1. 35 | 1.435 | 127 | 2 | | E) | 42 | 20 |
| | ABERDEEN PROV GR. MO. | 8-853 | 5.262 | 8.551 | 966-4 | 9,1 | 111 | | 6 | * | 23 |
| LETTERMAN ARMY INSTITUTE OF RESEARCH | ESIDIO, S.F., CAL. | 11.960 | 1.462 | 0.704 | 0.70 | 6 | 2 | | ~ | S. | 2 |
| E.R. | | 33.682 | 15.257 | 27.293 | 13-173 | 01 | 607 | | 9 | 2 | 219 |
| SYSTEMS ANALYSIS AGENCY AL | ERDEEN PROV GR. | 15.569 | 8.455 | 14-044 | 7-512 | E 6 | 314 | 0 0 | ۰, | £1: | 238 |
| A 2000 00 00 00 00 00 00 00 00 00 00 00 0 | ABERDEEN PROV GR. FU. | \$1 C • 97 | 204.62 | | 4000 | <u>.</u> | 2 ; | ، د | - 4 (| ; ; | Ξ: |
| | TOTTEN E V | 676 | 670.0 | 47.4 | 110 | 9 - | 3 2 | v c | + < | ¥ - | ÷. |
| DESCRIPTION AND MINISTER ABOUT ABOUT THE DESCRIPTION AND MINISTER AND MINISTER AND MINISTER ABOUT THE PROPERTY OF THE PROPERTY AND THE PROPERT | DELVED CO | 2 6 3 5 | 2 523 | 7676 | 2 4 5 | 1 | † 6 | 9 | 2 | • 9 | , 4 |
| 5 | ET. KNOK, KV. | | 1000 | 784 | 1.754 | 110 | 133 | 7. | 7. | | 7 7 |
| = | KITALA LUMPIIR MAYLASTA | 0.301 | 0.301 | 0.224 | 0.224 | • | , 0 | | ; = | · | , |
| | | 0.317 | 0-317 | 0-191 | 0.191 | 0 | • | | | ٠ د | |
| LAB | 4 | 82.091 | 37-154 | 73.792 | 29. 354 | 31 | 1196 | ı m | . 07 07 | * | 680 |
| | - BELVOIR, VA. | 91.970 | 27.406 | 44 745 | 18.855 | * | 1370 | | 23 | - M | 596 |
| | TICK, MASS. | 40.281 | 25.684 | 23.207 | 14.968 | 132 | 1236 | | 06 | | 479 |
| | FT. BELVOIR, VA. | 32.654 | 15.727 | 32.654 | 15.727 | 51 | 404 | | 34 | | 219 |
| | VER, N.J. | 129.900 | 65.000 | 99.220 | 55.300 | 69 | 2676 | | 29 | - | 889 |
| | FT. MONMOUTH, N.J. | 11.419 | 11.290 | 11.319 | 11.290 | 12 | 654 | 0 | 0 | | 101 |
| RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE NA | TICK, MASS. | 3.351 | 3.351 | 2-600 | 2.600 | 17 | 102 | | 20 | 22 | \$ |
| SEASES | FT. DETRICK, MD. | 5.111 | 5.111 | 3-040 | 3.040 | 365 | 248 | ş | 61 | | 8 |
| | OCK ISLAND, IL. | 21-360 | 13.666 | 14-717 | 9.227 | σ; | 749 | ⊶ . | 61 : | I, | ğ |
| AL SCIENCES | MANATURA DAGE | 9. 700 | 046-7 | 907 | 046-7 | ⊒: | 0.51 | ۰ ، | ; | | 5 |
| - | MARKENS TIO | 10-120 | 4.257 | 767.04 | 2,702 | 1 26 | | . | 0 4 |) | 77 |
| DF RESEARCH WA | SHINGTON, 0.C. | 19,956 | 19-956 | 13.691 | 13.691 | 546 | 66. | 1 99 | 20. | • 10 | 253 |
| | ••• | 111-111 | 91.240 | 94.021 | 74.340 | 11.61 | 3594 | ¥ | 6 11 | 9 | 441 |
| * | · • | 24.653 | 24-653 | 11.508 | 11.508 | 436 | 802 | 13 | 0 | 25 | 8 |

| | | • | SPACE AND PROPERTY | ביים שניים | APE ECETI | 1111 . 603 | |
|--|--|------------|--------------------|--|---|----------------|-------------|
| INSTALLATION | | , | | | , | REAL | |
| | | ACRES | LASORATORY | MOMIN | DTHER | PRCPERTY | EOUI PMF |
| A EROMEDICAL RESEARCH LABORATORY | FT. RUCKER, AL. | • | 26.933 | 5.940 | 7.470 | 0.379 | 2.1 |
| AIR DEFENSE BOARD | EL PASO, TEXAS | 92 | 36.550 | 38.646 | \$2.724 | 1.895 | 11.0 |
| AIR MOBILITY RED LABORATORY | MOUNTAIN VIEW, CAL. | 108 | 85.014 | 43.308 | 15.584 | 1.474 | 4.0 |
| AIRBORNE COMMUNICATIONS & ELECTRONICS BOARD | FT. BRASG, N.C. | 27 | 00000 | 50.879 | 114.000 | 4.190 | |
| | FT. GREELY, AK. | 726014 | 20.550 | 30,600 | 229.847 | 13,158 | 0 *3 |
| ARMOR AND ENGINEER BOARD | FT. KNOX, KENTUCKY | 900 | 6.200 | 68.068 | 166.374 | 1.419 | 2•3 |
| ATMOSPHERIC SCIENCES LABORATORY | WHITE SANDS MR. N.M. | + 5 | 0.056 | 0.025 | 0.033 | 48.000 | 2.5 |
| AVIATION SYSTEMS TEST ACTIVITY | EDMARDS AFB; CAL. | 13 | 0.004 | 0.033 | 0.098 | 1.140 | . |
| AVIATION TEST BOARD | FT. RUCKER, AL. | 1234 | 2.440 | 46.334 | 180.754 | 2.850 | 13.1 |
| AVIONICS LABORATORY | EATONTOWN, N.J. | 0 | 43.500 | 7.500 | 1.706 | 2.605 | 14.9 |
| BALLISTICS RESEARCH LABORATORIES | ABERDEEN PROV GR, MD. | 3380 | 277.823 | 113.784 | 0000 | 15,633 | 34.4 |
| BENET WEAPONS LABORATORY | MATERVLIET, N.Y. | • | 176.776 | 24-600 | 0.000 | 2.266 | |
| COATING AND CHEMICAL LABORATORY | ABERDEEN PROV GR, MD. | 0 | 0.017 | 0.002 | 9000 | 090*0 | •• |
| COLD REGIONS REE LABORATORIES | HANDVER, N.H. | 631 | 19.013 | 9.848 | 108.415 | 3.906 | 4.3 |
| COMBAT SURVETLLANCE & TGT ACQUISITION LABS | FT. MONMOUTH, N.J. | 11 | 103,535 | 7.281 | 26.133 | 2.418 | 23.0 |
| COMMUNICATIONS ADP LABORATORY | FT. MONNOUTH, N.J. | 71 | 75.305 | 7.389 | 1.015 | 000 0 | 6.9 |
| CONSTRUCTION ENGINEERING RESTARCH LABORATORY | | 51 | 68.875 | 32.075 | 0000 | 3,481 | 1.9 |
| DESERET TEST CENTER (LABS) | DUGHAY, UTAH | 640910 | 65.891 | 130.051 | 1743.102 | *69.608 | 21.8 |
| FOGEWOOD ARSENAL LABS | EDGEWOOD ARSENAL, MO. | 4055 | 496.713 | 97.329 | 148.154 | 16.899 | 8.9 |
| FLECTRONIC PROVING GROUND | | 19431 | 00000 | 187.580 | 0000 | 3.320 | 27.8 |
| FI FOTROWIC MAREARE LABORATORY | FT. MONMOUTH. N.J. | 0 | 61.311 | 40.868 | 10.850 | 2,525 | 13.8 |
| ELECTIONIC TECHNOLOGY AND DEVICES 'AR | MONKOUTH. N | 279 | 142.900 | 8.100 | 0000 | 5.832 | 12.4 |
| CENTRAL TODOUGHBUTT - ABOUTTO THE | ET. REI WITE. VA. | | A5.800 | 10.828 | 1.700 | 000 0 | 11.6 |
| CHOINERS LOTOGRAPHIC CAROLATION CALLED | CTORESON BACO | 000 | 1201.000 | 709 822 | 102,133 | 15.080 | 24.8 |
| CHOLNER WAS EXMAIN CAMENDAL GIALLOS | CT CTI OF | 600 | 26.286 | 74. 14. | 56.138 | 924.6 | |
| FIELD AN ILLER! BOARD | But the but a | 3 7 | 207.00 | 34.000 | KK7_000 | 0.070 | o oc |
| TRESTORY RESIDENCE | restance of the | 1 | 200 | 200467 | | 72 61 | 2 2 6 |
| HARRY DIABOND LABORALDRY | APPROPRIATE PROPERTY OF ACT | 2 | 700107 | 17 606 | 28 052 | 700 | 7 |
| HOMEN ENGINEERING CABORALONS | į | 101 | | | 20 67 | | |
| INFANIXY GUAKU | TI- DENNING, GA- | 66641 | 1.000 | 4 133 | 1.425 | 000.0 | |
| INDITION OF DENIAL REDEAKCE | RACOLAGICAL CO. | - | 75 424 | | 10,00 | 1.068 | |
| INVIIOU E UT VOKGICAL REVEARUR | ARCED CAN DOCUMENT OF THE | 1 | 28.601 | 2000 | 12.628 | 0.686 | 6 |
| LAND WARFARE LABORATORY | ٠. | 2 " | 50-03 | CC0-7 | 0.000 | 0.647 | |
| . • | LATED TOLDS. MACC. | ` \$ | 281.778 | 100 | 203-880 | 16.247 | 11.6 |
| カラードメータにし みなじ コのじろろうしてい からいちろくさ くじろーガス | TO THE PERSON OF | • | 100 | 7 | 000 | 1, 773 | |
| はなしにおしてい ひょうにつく かんかにっしょく からにっしょ | | 67740 | 1220-000 | 424.000 | 905,000 | 227,000 | \$2°C |
| コラーにおいた。 これりょうちゅうしょうかくじょうかくじょう カインタイプログライン・カイン カインかんしじょうじょう かけんかい カー・カインタイプ | | | 11.463 | 1-022 | 0000 | 0.976 | 4.0 |
| MEDICAL BIGHTOMENT BED 148 | FT. TOTTEN. R.Y. | 0 | 21.523 | 9.081 | 6.469 | 944 | •• |
| | DENVER. CO. | 7 | 83.663 | 5,138 | 19.087 | 5.079 | 3.3 |
| RESEARCH LABORATORY | FT. KNOX, KY. | 20 | 88.025 | 5.363 | 34.734 | 0.280 | 3.0 |
| MEDICAL RESEARCH UNIT | KUALA LUMPUR MAYLASIA | 15 | 7.000 | 0.400 | 0000 | 0.100 | 0.0 |
| RESEARCH UNIT | BALBOA HEIGHTS, C.Z. | 0 | 2.000 | 0.600 | 0.000 | 0.00 | 0.0 |
| MISSILE RES. + DEV. AND ENGINEERING LAB | REDSTONE ARSENAL, AL. | 11000 | 1168-000 | 262.000 | 408-000 | 23.178 | 35.6 |
| 5 | FT. BELVOIR, VA. | 1000 | 011-110 | 147.480 | 128-040 | 617.06 | |
| NATICK LABORATORIES | MAILCR, MASS. | 306 | 252.000 | 006-69 | 2000 | 2C1 -04 | 77 |
| NIGHT VISION LABORATORY | FT. BELVOIR, VA. | 61 | (30.61 | 24.863 | 161.10 | 106-64 | |
| PICATINNY ARSENAL LABORATURIES | COVERNITY IN THE | 0 44 6 | 240-46 | 000.0 | 0.315 | 104.8 | 9 |
| KAD FERMISAL BOPPORT ACTIVITY Secresols tentities of rectonsafatal medicing | MATTER MACK | 9 | 60.421 | 18,563 | 28.647 | 6.902 | 2.0 |
| ē | FT. DETRICK. HD. | 57 | 93.217 | 13.819 | 198,731 | 17.818 | 3.1 |
| ROCK ISLAND ARSENAL LABORATORIES | ROCK ISLAND, IL. | 180 | 103.617 | 100.838 | 106-679 | 3.598 | 11.1 |
| RSCH INST FOR BEHAVIORAL AND SOCIAL SCIENCES | MASHINGTON, D.C. | 0 | 25.435 | 9.742 | 1.623 | 000 0 | 1:0 |
| TANK-AUTOMOTIVE COMMAND LABS | MARREN, MI. | 1125 | 361.202 | 0.00 | 000.0 | 15.538 | 16.7 |
| TROPIC TEST CENTER | FT. CLAYTON, C.Z. | 18868 | 66.363 | 87.971 | 67.118 | 1.211 | e . |
| WALTER REED ARMY INSTITUTE OF RESEARCH | MASHINGTON, D.C. | 1173 | 389.300 | 58-600 | 00000 | 140.507 | 164.1 |
| KHITE SAND MISSEE RANGE | WHITE SANDS MK. No.K. | 1086909 | 166.247 | 976-444 | 179.028 | 85. 771 | 55.3 |
| YOMA PROVING GROUND | | 10001 | | **** | >************************************** | • | , |

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TABLE 3. NAVY RDTEE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1972

| | | | FUNDIN | FUNDING DATA (MILLIONS | ILL IONS | 3 | | PEPS | PEP SONNEL DAT | DAT | _ | |
|---|---|---------------------|---------|------------------------|----------|---------|------------|-----------|----------------|----------|----------|------------|
| | INSTALLATION | | | TOTAL | TOTAL | INHOUSE | TOTAL | TOTAL P | OH OH | PHO PE | £ 5 | ROF |
| | | | TOTAL | INHOUSE | ROTEE | ROTEE | | | | - - | 11 | <u>د ۱</u> |
| | WHENTAL PREDICTION RESEARCH FACILITY | MONTEREY, CA. | 1-158 | 0-885 | 1.079 | 908-0 | 91 | 27 | | - | - | 2 |
| | AEROSPACE MEDICAL RESEARCH LABORATORY | SACOLA, FL. | 3.708 | 3.708 | 3.408 | 3.408 | 31 | 123 | - | 17 | 13 | 4 |
| | AEROSPACE RECOVERY FACILITY | CENTRO, CA. | 7.466 | 6.496 | 2.447 | 2.347 | 991 | 110 | - | 0 | • | * |
| | AIR DEVELOPMENT CENTER | JOHNSVILLE, PA. | 104.202 | 49.203 | 71.889 | 37.307 | 389 | 2335 | 11 | 27 | 107 | 042 |
| | ENGINEER ING CENTER | PHILADELPHIA, PA. | 78.997 | 46.283 | 12.613 | 8.162 | 37 | 2198 | 0 | 4 | ĸ | 804 |
| | AIR PROPULSION TEST CENTER | ¥.5. | 16.450 | 11.052 | 11.233 | 7.425 | 2 | 9 | 0 | 0 | _ | 158 |
| _ | AIP TEST CENTER | PATUXENT RIVER, MD. | 89.774 | 74.328 | 34.733 | 31,014 | 116 | 2042 | _ | 'n | 205 | 420 |
| _ | AIR TEST FACILITY (SHIP INSTALLATIONS) | LAKEHURST, N.J. | 9.775 | 9-765 | 1-371 | 1.371 | 134 | 405 | 0 | 0 | _ | * |
| _ | | CHELSEA, MS. | 0.469 | 0.469 | 0.332 | 0.332 | 2 | 13 | ٠r | 0 | • | 0 |
| - | _ | PORT HUENEME, CA. | 11.787 | 8.434 | 9.700 | 6.833 | 21 | 361 | _ | 39 | 0 | 196 |
| _ | CLOTHING AND TEXTILE RESEARCH UNIT | NATICK, MS. | 1.205 | 1.205 | 0.558 | 0.558 | | 6 | 0 | 0 | - | 23 |
| _ | DENTAL RESEARCH INSTITUTE, NTC | AT LAKES, IL | 0.760 | 0.742 | 0.489 | 0.489 | 20 | 15 | _ | 7 | œ | €0 |
| - | ELECTRONICS LABORATORY CENTER | SAN DIEGO, CA. | 59.325 | 54.713 | 32-774 | 29.981 | \$ | 1468 | ~ | 19 | 99 | 737 |
| _ | ۲ | IAN HEAD, MD. | 4.563 | 3.097 | 1.532 | 0.972 | 73 | 152 | 0 | | 56 | 11 |
| | NAVAL MEDICAL FIELD RESEARCH LABORATORY CAM | CAMP LEJEUNE, N.C. | 1.109 | 1-189 | 0.821 | 0.821 | 37 | 21 | • | ~ | 9 | 11 |
| _ | | BETHESDA, MD. | 6.543 | 6.543 | 4.323 | 4.323 | 204 | 207 | 84 | | 106 | 23 |
| | _ | BERKELEY, CA. | 0.268 | 0.268 | 0.047 | 0.047 | 91 | ~ | • | _ | sv. | 0 |
| - | RESEARCH UNIT NO. 2 | FAIPEI, TAIMAN | 2.035 | 2.035 | 1.489 | 1.489 | 35 | • | 13 | ~ | 30 | FU. |
| _ | RESEARCH UNIT NO. 3 | AO, EGYPT | 1.864 | 1.864 | 0.758 | 0.758 | 31 | 108 | €0 | | ٠. | 4 |
| _ | MEDICAL RESEARCH UNIT NO. 4 | AT LAKES, IL | 1-140 | 1-140 | 0.760 | 0-760 | 38 | 7 | 5 | | | 11 |
| - | MISSILE CENTER | NT MUGU, CA. | 469.99 | 54.030 | 32.629 | 24.472 | 638 | 1691 | 0 | | ٠ | 521 |
| _ | _ | TE DAK, MD. | 101-150 | 62.010 | | 43-332 | 23 | 2847 | - | 137 | _ | 1144 |
| _ | ORDNANCE MISSILE TEST FACILITY | TE SANDS M.R., N.H | 3.750 | 3-452 | 1.206 | 1,206 | 178 | 63 | - | | ٠, | ĸ |
| _ | PERSONNEL RED LABORATORY | MASHINGTON, D.C. | 3.673 | 3-600 | 2-284 | 2.211 | £3 | 197 | 0 | 15 | Ţ | 120 |
| | PERSONNEL RESEARCH ACTIVITY | SAN DIEGO, CA | 3.971 | 3.971 | 3.340 | 3.340 | 34 | . 165 | 0 | | | 98 |
| _ | RESEARCH LABORATORY | MASKINGTON, D.C. | 145.678 | 140-048 | 20~057 | 114.427 | 114 | 3586 | w | 19 | _ | 476 |
| _ | SHIP RED LABORATORY | PANAMA CITY, FL. | 14.570 | 13.342 | 7.380 | 6-301 | 138 | 587 | ~ | 17 | | 240 |
| | SHIP RESEARCH AND DEVELOPMENT CENTER WA | SHINGTON, D.C. | 103-696 | 39-204 | 78.899 | 28.455 | S | 3072 | 7 | 70 | _ | 232 |
| _ | SPACE SYSTEMS ACTIVITY | S ANGELES, CA. | 22.334 | 0.881 | 9.784 | 0.631 | 5 * | 32 | • | , | 12 | 61 |
| _ | SUBHARINE MEDICAL RESEARCH LABORATORY | LONDON, CT. | 1.950 | 1.950 | 1-446 | 1-446 | 42 | 67 | ٠. | 14 | _ | 37 |
| _ | | SAN DIEGO, CA. | 78.596 | 46-724 | 48-893 | 31.374 | 284 | 1631 | 0 | 2 | | 683 |
| _ | UNDERMATER SYSTEMS CENTER | NEWPORT, R.I. | 116.421 | 85.440 | 49.143 | 39°445 | 93 | 2140 | 0 | 73 | | 359 |
| _ | RICK | FREDERICK, MD. | 0.117 | 0.117 | 0.025 | 0.025 | 91 | | 2 | 0 | | 0 |
| _ | CENTER | CHINA LAKE, CA. | 172.091 | 108-975 1 | 05.453 | 68.527 | 716 | 4592 | 0 | ٠ | | 453 |
| _ | FACILITY | ALBUQUERQUE, N.M. | 5.288 | 5.236 | 1.170 | 1.118 | 200 7 | \$ | 0 | - | _ | 36 |
| _ | | DAMLGREN, VA. | 83.325 | 56.550 | 29.369 | 19.469 | 108 | 2703 | 0 | 67 | 27 | 620 |
| _ | RIC RESEARCH UNIT | SAN DIEGO, CA | 1-492 | 1.492 | 0.975 | 0.975 | 6 | 60 60 | = | 0 | | 56 |
| | ZNEU | HESDA, MD. | 0.365 | 0.380 | 0.234 | 0.229 | 11 | !- | m (| <u>ဗ</u> | . | ~ |
| - | PACIFIC MISSILE RANGE | NT MUGU, CA. | 211-06 | 56.156 | 65.355 | 44-150 | 121 | 5062 | • | <u>~</u> | 8 | 384 |
| | | | | | | | | | | | | |

1417.971 968.977 828.864 570.336

TOTALS

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| כטצב נאנררנסאפ פו | REAL PROPERTY EQUIPMENT | 0.000 0.195 | 2.807 2.073 | 8-598 3-758 | 22,912 37,810 | 32,293 17,039 | | _ | 34,172 7,431 | | 5.733 5.679 | | 0.000 0.359 | m | 2.851 2.437 | | 4.016 0.623 | 0.000 0.000 | | | 0.387 0.440 | | m | | | _ | | | * | | | | w | | €0 | | 63.573 31.101 | | ~ | 142.600 170.000 | 1031.501 726.839 |
|---------------------------------------|-------------------------|---------------|--|----------------|------------------------|-------------------|---------|---------------------|--|--------------|-------------------|-------------|-----------------|---------|------------------|--------------------|---------------|---------------------|---------------------|---------------------|---------------------|-----------------|---------------------|--------------------------------|------------------|--------|------------------|------------------|-------------------|------------------------|---|----------------|---------------------------|----------------|-----------------|--------------------|---------------|-------------------|--------|-----------------|--------------------|
| ERTY SQUARE FEET) | OTHER | 6.351 | 11.693 | 263.000 | 444.075 | 723.209 | 136.000 | 3101.833 | 91.906 | 1.000 | 31.548 | 3.000 | 000-9 | 221.523 | 43.335 | 15,590 | 26.590 | 0.000 | 17.826 | 2-300 | 18.975 | 754.611 | 636-274 | 238.950 | 1.420 | 00000 | 664-139 | 329.707 | 1957-680 | 3.233 | 12.638 | 671-100 | 795.281 | 000-0 | 5752.845 | 101.958 | 808-830 | 0.000 | 1.416 | 1395.996 | 19291.832 |
| SPACE AND PROPERTY (THOUSANDS OF SQUA | ADM1N | 0.843 | 19.604 | 10.000 | 26.080 | 177.625 | 51.600 | 216.948 | 29.598 | 0.160 | 21.977 | 7.000 | 5.100 | 157.531 | 19.797 | 8.655 | 21.561 | 0.360 | 38.674 | 9.500 | 16.716 | 169.569 | 178.035 | 30.540 | 2.703 | 4.900 | 135.662 | 35.296 | 182.073 | 1.595 | 6.441 | 33.457 | 121.655 | 2.121 | 163.857 | 21.522 | 73.655 | 4.500 | 0-140 | 271-263 | 2278.563 19291.832 |
| SPACE (THOUS) | LABORATORY | 908.0 | 131.787 | 44.000 | 815.970 | 1373.426 | 410.937 | 748.000 | 59.204 | 9.000 | 120.352 | 10.000 | 006-9 | 461.555 | 50.771 | 28-226 | 151.730 | 0000 | 32,780 | 18,242 | 22.053 | 110.756 | 388-021 | 84.310 | 22-156 | 47.300 | 2241.527 | 172,445 | 318.012 | 0.00 | 23.325 | 336.900 | 625.928 | 0.000 | 722.689 | 19.590 | 484.567 | 13.977 | 2-250 | 93.463 | 1284692 10201.965 |
| gs | ACRES 1 | | 0 | 101230 | 631 | 560 | 99 | 6872 | 2500 | 0 | 22 | 2 | | 1881 | 1084 | m | * | 0 | 7 | m | - | • | 1059 | 112 | 0 | - | 2161 | 419 | 325 | 0 | 0 | 37575 | 835 | 0 | 1083019 | *C | 4490 | 0 | 0 | 29600 | 1284692 1 |
| | | MONTEREY, CA. | PENSACOLA, FL. | EL CENTRO, CA. | JOHNS VILLE, PA. | PHILADELPHIA, PA. | | PATUXENT RIVER, MO. | LAKEHURST, N. J. | CHELSEA, MS. | PORT HUENEME, CA. | NATICK, MS. | GREAT LAKES, IL | • | INDIAN HEAD, MD. | CAMP LEJEUNE, N.C. | BETHESDA, MD. | BERKELEY. CA. | TAIPEI, TAIWAN | CAIRO, EGYPT | GREAT LAKES, IL | POINT MUGU, CA. | WHITE DAK, ND. | | MASHINGTON. D.C. | | WASHINGTON, D.C. | PANANA CITY. FL. | WASHINGTON, D.C. | LOS ANGELES, CA. | NEW LONDON, CT. | SAN DIEGO, CA. | NEMPORT, R.I. | FREDERICK, MD. | CHINA LAKE, CA. | AL BUQUERQUE, N.M. | DAMEREN, VA. | SAN DIEGO, CA | SDA, M | FOINT MUGU, CA. | |
| | INSTALLATION | _ | AE JOSPACE MEDICAL RESEARCH LABORATORY 6 | | AIR DEVELOPMENT CENTER | | NTER | _ | AIR TEST FACILITY (SHIP INSTALLATIONS) | _ | OR∀ | H UNIT | | | ACILITY | | | RESEARCH UNIT NO. 1 | RESEARCH UNIT NO. 2 | RESEARCH UNIT NO. 3 | RESEARCH UNIT NO. 4 | | ORDNANCE LABORATORY | ORDNANCE MISSILE TEST FACILITY | | ITY | | | EVELOPMENT CENTER | SPACE SYSTEMS ACTIVITY | SUSMARINE MEDICAL RESEARCH LABORATORY N | | UNDERWATER SYSTEMS CENTER | | | FACILITY | _ | RIC RESEARCH UNIT | _ | | TOTALS |

TABLE 4. NAVY ROTGE FACILITIES DATA, FY 1972

TABLE 5. AIR FORCE ROTGE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1972

| | | FUNDIN | FUNDING DATA (MILLTONS 8) | HILL TONS | | | PER | SONN | PERSONNEL DATA | 4 | |
|--|-----------------------|----------|---------------------------|-----------|---------|-------|-------------|-------------|----------------|----------|------|
| NOTE A LINE TANK | | | TOTAL | TOTAL | _ | TOTAL | TOTAL | 949 | OHa | PROF | PROF |
| | | 107 26 | INHOUSE | ROTCE | | H | <u> </u> | MIL | CIV | #IL | CI^ |
| A SROPROPIN STON I ABORATORY | WPAFB. OH. | 60° 830 | 5.387 | 60.830 | | 51 | 341 | * | 20 | 4 | 182 |
| AFROSTACE RESEARCH LABORATORIES | YPAFB. OH | 13.814 | 9.155 | 12.754 | | 72 | 173 | 22 | 6 3 | 26 | Š |
| ARMAMENT DEVELOPMENT AND TEST CENTER | EGLIN AFB. FL. | 384.255 | 100.205 | 129.713 | | 4531 | 3707 | 114 | 35 | 1269 | 678 |
| ARNOLD FACINFFRING DEVELOPMENT CENTER | TULLAHOMA. TN. | 64.416 | 10.286 | 55.063 | | 80 | 146 | 4 | m | 62 | 53 |
| AVIONICS LABORATORY | WPAFB . CH. | 108.277 | 8-682 | 100.858 | | 161 | 584 | 17 | 20 | 103 | 354 |
| CAMBRIDGE RESEARCH LABS | L.G. HANSCOM FLD. MS. | 60.959 | 34.050 | 56.240 | | 182 | 417 | <u>*</u> | 159 | 2 | 666 |
| FASTER TEST RANGE | PATRICK AFB. FL. | 338.951 | 115-506 | 153.255 | | 1507 | 1875 | 34 | - | 103 | 112 |
| FIGHT DYNAMICS LABORATORY | WPAFB. OH. | 70.877 | 25.587 | 68-472 | | 198 | 146 | * | 34 | 4 | 511 |
| FIGHT TEST CENTER | EDWARDS AFB. CA. | 80.290 | 64.978 | 49.619 | | 3101 | 1775 | 20 | 0 | 271 | 174 |
| FRANK 1. SETTER RESEARCH LABORATORY | USAF ACADEMY. CO. | 1.540 | 1.540 | 0.570 | | 22 | ٥ | 11 | - | 22 | 7 |
| LIMAN RESUMPCES I ABORATORY | BROOKS AFB. TX. | 11,348 | 4.472 | 10.090 | | 134 | 231 | - - | 38 | 16 | 116 |
| ZATERIALS - AB | WPAFB. OH | 56.043 | 10.676 | 44.909 | | 9 | 337 | 50 | 46 | 9 | 245 |
| ROCKET PROPULSION LABORATORY | EDWARDS AFB. CA. | 29.750 | 13,123 | 25.851 | | 188 | 298 | 17 | 9 | 16 | \$ |
| BOSE ATR DEVELOPMENT CHUTER | GRIFFISS AFB. N.Y. | 169,205 | 37.179 | 92.745 | | 325 | 1130 | 9 | 15 | 119 | 525 |
| SPACE AND MISSIE TEST CENTER | VANDENBURG AFB. CA. | 84.860 | 26.595 | 77.617 | | 452 | 395 | w | - | 253 | 155 |
| USAF SCHOOL OF AFROSPACE MEDICINE | BROOKS AFB. TX. | 17,398 | 15.196 | 10.886 | | 603 | 357 | 92 | ç | 224 | 127 |
| PEAPENS LABORATORY | KIRTLAND AFB. N.M. | 85.704 | 40.866 | 75.218 | | 796 | 397 | 96 | 20 | 572 | 188 |
| 6570 AEROSPACE MEDICAL RESEARCH LABORATORY | MPAFB. OH | 14.318 | 9.613 | 12.798 | 8.093 | 127 | 168 | 53 | 26 | 11 | 8 |
| TOTALS | | 1652.835 | 533.0961037.488 | 037.488 | 340-646 | 12590 | 12590 13841 | 516 | 498 | 3587 | 4305 |

TABLE 6. AIR FORCE ROTGE FACILITIES DATA, FY 1972

| | | | SPACE | SPACE AND PROPERTY | | COST (MILLIONS | LIGNS \$3 |
|--|-----------------------|--------|--------------|----------------------|------------|----------------|-------------------|
| | | SP | SPACE (THOUS | (THOMSANDS OF SQUARE | JARE FEET) | | |
| INSTALL ATION | | | | | | REAL | |
| | | ACRES | LABORATORY | ADMIN | OTMER | PROPERTY | EOUI PHENT |
| AEROPROPULSION LABORATORY | WPAFB. CH. | 04 | 309,500 | 66.500 | 274-775 | 12,894 | 16.713 |
| AFROSPACE RECEARCH LABORATORIES | WPAFB. OH | 34 | 134,953 | 49.837 | 34.719 | 12.625 | 12.603 |
| ARMAMENT DEVELOPMENT AND TEST CENTER | | 464795 | 676.611 | 944.144 | 6656.315 | 210-861 | 223-159 |
| ARNOLD FNGTNEFRING DEVELOPMENT CENTER | TULLAHOMA, TN. | 40118 | 1149-163 | 201.411 | 532,348 | 361.532 | 59.005 |
| AVIORICS LABORATORY | WPAFE. OH. | 254 | 218.583 | 5,304 | 264.277 | 21.008 | 35.638 |
| CAMBRIDGE RESTARCH LARS | L.G. HANSCOM FLD. MS. | 858 | 614.773 | 19.708 | 125.916 | 20.554 | 64.228 |
| SASTERN TEST RANGE | PATRICK AFB, FL. | 18203 | 130.543 | 739.482 | 7044.196 | 370,670 | 519.800 |
| FLIGHT DYNAMICS LABORATORY | WPAFB. OH. | 90 | 541-130 | 60.600 | 26.000 | 22.705 | 54.000 |
| FLIGHT TEST CENTER | EDWARDS AFB, CA. | 246523 | 541.686 | 323.084 | 6405.099 | 178-895 | 423.455 |
| FRANK J. SEILER RESEARCH LABORATORY | USAF ACADEMY, CO. | 0 | 9.394 | 2.860 | 0.240 | 1.287 | 1.483 |
| HIMAN RESUIRCES LABORATORY | BROOKS AFB. TX. | 13 | 62.679 | 29.544 | 31,539 | 1.925 | 4.102 |
| TANEST LAS | WPAFB, OH | Φ | 0-117 | 0.061 | 0.038 | 6-750 | 10.396 |
| ROCKET PROPULSION LABORATORY | EDWARDS AFB, CA. | 54400 | 419,046 | 99.248 | 4.780 | 29,869 | 24.093 |
| ROME A'R DEVELOPMENT CENTER | GRIFFISS AFB, N.Y. | 2817 | 719.708 | 92.402 | 238.531 | 29.351 | 72.599 |
| SPACE AND MISSLE TEST CENTER | VANDENBURG AFB. CA. | 45546 | 91.407 | 354.384 | 431.954 | 309∙96 | 495.861 |
| 334F SCHOOL OF AFROSPACE MEDICINE | BROOKS AFB. TX. | 63 | 452.105 | 95,230 | 59.114 | 15.377 | 21,932 |
| HEAPONS LABORATORY | KIRYLAND AFB, N.M. | 934 | 428,659 | 14.620 | 22.187 | 10.791 | 33,887 |
| 6570 AEROSPACT MEDICAL RESEARCH LABORATORY | WPAFB, OH | 30 | 211-900 | 10.000 | 15.200 | 11.570 | 15.938 |
| TOTALS | | 874568 | 6711.957 | 3109.619 22167.228 | 22167.228 | 1415.268 | 2088,902 |

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| | PROGRAM AND PERSONNEL DATA, FY 1972 |
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| | LE 7. DEPARTMENT OF DEFENSE ROTGE AC |
| | ABLE 7. DEPARTMENT OF DEFENSE ROTCE AC |
| | TABLE 7. DEPARTMENT OF DEFENSE ROTCE AC |

| | 20.5 | 36 | Š |
|---------------------------|--------------|--|-------------|
| TA | PROF | 41 | 7. |
| PERSONNEL DATA | PHD PROF | 17 | 14 41 |
| SONN | PH0 | 202 | 20 |
| PE | rotal. | 138 | 138 |
| | TOTAL | 83 | 83 |
| £ 5 | INHOUSE | 3.094 | 3.127 3.094 |
| MILLIONS | TOTAL | 3.127 | 3-127 |
| UNDING DATA (MILLIONS \$) | TOTAL | 3.950 | 3,983 3,950 |
| FUNDING | 10101 | 3.983 | 3.983 |
| | | BETHESDA, MARYLAND | |
| | INSTALLATION | ARMED FORCES RADIOBIOLOGY RES. INSTITUTE | TOTALS |

SUMMARY

DEPARTMENT OF DEFENSE IN-HOUSE R&D LABORATORIES

PROGRAM DATA FOR FY 1972

| | (MILLIUNS) |
|---------------------------------|------------|
| TOTAL ANNUAL LABORATORY PROGRAM | 2840.100 |
| TOTAL INHOUSE PROGRAM | 1536.053 |
| TOTAL ROTEE PROGRAM | 2034•385 |
| TOTAL INHOUSE ROTGE | 1082.604 |
| TOTAL ANNUAL OPERATING COST | 378.238 |

PERSONNEL DATA (END OF FY 1972)

| PER SONN EL | AUTHORIZED | TOTAL | TOTAL |
|-------------|--------------|-------|---------------|
| | Strength | PHD | PROFESSIONALS |
| MILITARY | 8208 | 871 | 3740 |
| CIVILIAN | 57249 | 2939 | 24799 |
| TOTAL | 65457 | 3810 | 28539 |

PHYSICAL FACILITIES (END OF FY 1972)

| ACRES | 1240472 |
|---------------------------------------|-------------------------------------|
| SPACE (THOUSANDS OF SQ FT) | |
| LABORATORY ADMINISTRATIVE OTHER | 20900 .897 4399.507 19505.494 |
| TOTAL | 44805.898 |
| COST (MILLIONS) | |
| REAL PROPERTY EQUIPMENT | 1268.906 1237.314 |
| TOTAL. | 2506.220 |

TABLE 1A. ARMY RED LABORATORIES, PROGRAM AND PERSONNEL DATA, FY 1972

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| | | FUNDIA | FUNDING DATA (| (MILLIONS | 3 | | 6. 6. | PERSONNEL | L DAT | ⋖ | |
|--|-----------------------|----------|----------------|----------------|-------------------|--------------|----------|-----------|------------|----------|------------------------|
| INSTALLATION | | TOTAL | TOTAL | TOTAL RDTGE | INHOUSE ROT EE | TOTAL MIL | TOTAL | HIL | PHO P | R PR | PROF CIV |
| AFROMEDICAL RESEARCH LASSRATORY | FT. RUCKER. AL. | 1.868 | • | 1.285 | | 48 | 2. | | | | 4 |
| AIR MOBILITY RED LABORATORY | EW, CA | 43.641 | | 43.021 | 12.838 | 34 | 575 | - | 26 | 34 | 236 |
| ATMOSPHERIC SCIENCES LABORATORY | HHITE SANDS MR, N.M. | 12.219 | | 9.220 | | 4.83 | | | | ç | 115 |
| AVIONICS LABORATORY | TONTOWN, N. J. | 20.956 | 18-146 | 12-699 | 11.294 | 25 | | - | | 14 | 160 |
| BALLISTICS RESEARCH LABORATORIES | βÖ | 30.868 | | 30.609 | | 75 | | σ | | 95 | 410 |
| BENET WEAPONS LABORATORY | T, N.Y. | 15.334 | | 168.6 | æ | m | | 0 | 4 3 | ~ | 175 |
| COATING AND CHEMICAL LABORATORY | PROV G | 3.546 | | 2.899 | | ın | | - | 7 | ø | 58 |
| COLD REGIONS REF LABORATORIES | Z.H. | 7.435 | | 5-197 | | 41 | | ~ | 22 | 36 | 84 |
| COMBAT SURVEILLANCE & TGT ACQUISITION LABS | FT. MONMOUTH, N.J. | 33.000 | | 33.000 | | 38 | | - | 9 | 23 | 172 |
| COMMUNICATIONS ADP LABORATORY | FT. MONFOUTH, N.J. | 31.700 | 14-100 | 31.400 | | 23 | | 0 | σ. | 12 | 252 |
| CONSTRUCTION ENGINEERING RESEARCH LASORATORY | INBANA, IL. | 404-9 | 5.069 | 5.873 | | m | | 0 | 33 | 4 | \$ |
| EDGEWOOD ARSENAL LABS | GEWOOD ARSE | 39.080 | 36.760 | 33.205 | | 196 | | 61 | 65 | 146 | 557 |
| ELECTRONIC WARFARE LABORATORY | FT. MONMOUTH, N.J. | 32.560 | 15,312 | 32.228 | | 63 | | 0 | 4 | 4 | 161 |
| ELECTRONICS TECHNOLOGY AND DEVICES LAB | FT. MONMOUTH, N.C. | 22.092 | 12.393 | 21.953 | | 13 | | - | 52 | S | 305 |
| ENGINEER TOPOGRAPHIC LABORATORIES | FT. BELVOIR, VA. | 13.411 | 5.800 | 13,256 | | 52 | | - | 21 | 12 | 169 |
| ENGINEER WATERWAYS EXPERIMENT STATION | VICKSBURG, MISS. | 24.534 | 22.073 | 14.451 | | 23 | | m | 36 | 45 | 355 |
| FPANKFORD ARSENAL LABS | PHILADELPHIA, PA. | 35.355 | 26-244 | 32.246 | | 31 | | 7 | 33 | 22 | 724 |
| HARRY DIAMOND LABORATORY | MASHINGTON, D.C. | 77.,783 | 40.845 | 45.986 | | 6 | | - | 61 | • | 533 |
| HUMAN ENGINEEP ING LABORATORY | ERDEEN PROV | 3.629 | 3.253 | 3.208 | | 30 | | - | 20 | 13 | 53 |
| INSTITUTE OF DENTAL RESEARCH | WASHINGTON, D.C. | 1.384 | 1.384 | 0-715 | | 26 | | 10 | 7 | 30 | 6 |
| INSTITUTE OF SURGICAL RESEARCH | _ | 2-799 | 2.799 | 1.435 | | 127 | | 20 | m | 45 | 20 |
| LAND WARFARE LABORATORY | ABERDEEN PROV GR, MD. | 8.853 | | 8.551 | | 91 | | 0 | m | 7 | 22 |
| LETTERMAN ARMY INSTITUTE OF RESEARCH | PRESIDIG, S.F., CAL. | 11.960 | | 0.704 | | 90 | | 19 | 2 | 20 | 2 |
| MATERIALS AND MECHANICS RESEARCH CENTER | MATERTOWN MASS. | 33.682 | | 27.293 | | 2 | | w | 65 | 2 | 219 |
| MATERIEL SYSTEMS ANALYSIS AGENCY | EROEEN | 15.569 | 8.455 | 14.044 | 7.512 | 13 | | 0 | ~ | 13 | 238 |
| MEDICAL BIOMECHANICAL RESEARCH LABORATORY | WASHINGTON, D.C. | 1.025 | | 0.865 | | 18 | | 7 | 4 | 12 | 12 |
| MEDICAL EQUIPMENT RED LAB | FT. TOTTEN, N.Y. | 0.949 | | 0.775 | | 15 | | 0 | 0 | - | m) |
| MEDICAL RESEARCH AND NUTRITION LAB, FGH | DENVER, CO. | 3,532 | | 2-426 | | 119 | | 30 | 12 | 69 | 4.5 |
| MEDICAL RESEARCH LABORATORY | FT. KNOX, KY. | 3.255 | | 1-754 | | 119 | | 11 | <u>*</u> | 86 | 36 |
| MEDICAL RESEARCH UNIT | UMPUR MA' | 0.301 | | 0.224 | | • | 0 | 'n | 0 | ~ | 0 |
| MEDICAL RESEARCH UNIT | BALBOA HEIGHTS, C.Z. | 0.317 | | 0.191 | | o. | | ~ | ن | 40 | 0 |
| | REDSTONE ARSENAL, AL. | 82.091 | 37.154 | 73-792 | | 31 | 1196 | m | 5 | ж ф | 680 |
| MOBILITY EQUIPMENT RED CENTER | FT. BELVOIR, VA. | 91-970 | 27.406 | 44.745 | | 54 | | 4 | 23 | 34 | 596 |
| NATICK LABORATORIES | | 40,231 | 25.684 | 23.207 | | 132 | | = | 0 | 29 | 61.4 |
| NIGHT VISION LABORATORY | | 32.654 | 15.727 | 32.654 | | 21 | | ο. | Ť. | 32 | 219 |
| PICATINNY ARSENAL LABORATORIES | | 129.900 | 86.000 | 99.200 | | 68 | | - | 62 | 21 | 1889 |
| RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE | KA4 | 3.351 | 3.351 | 2.600 | | F | | e :- | 20 | 22 | 64 |
| RESEARCH INSTITUTE OF INFECTIOUS DISEASES | FT. DETRICK, | 5.111 | 5.111 | 3.040 | | 365 | 248 | 4 | 19 | 6 | 8 |
| ROCK ISLAND ARSENAL LABORATORIES | 8 | 21.360 | 13.666 | 14.717 | | 6 | 749 | - | 19 | : | 304 |
| RECH INST FOR BEHAVIORAL AND SOCIAL SCIENCES | WASHINGTON, D | 8.706 | 2.540 | ٠ | 2.540 | 11 | 130 | - | 44 | <u>ټ</u> | 63 |
| TANK-AUTOMOTIVE COMMAND LABS | ¥ | 78-128 | 27.551 | 46.291 | 16.659 | 16 | 686 | 0 | • | 13 | 412 |
| WALTER REED ARMY INSTITUTE OF RESEARCH | WASHINGTON, D.C. | 19.956 | 19.956 | • | 13.691 | 546 | 909 | 168 | 120 | 305 | 253 |
| | | | | | 157 157 | | | | | 1676 | 0100 |
| TOTALS | | 1052-949 | 936-066 | 803.247 | 453.451 | 3159 | /1417 | #02 11#1 | | | 5/ 7 0 T |

Application of the state of the

TABLE 24. ARMY RED FACILITIES DATA, FY 1972

| COST (HILLIONS \$) | 1411 | TY EQUI | | | | 2.605 14.900 | | | | | ~ | 0.000 6.987 | | | | | | ~ | | 7 | | | | | | - | | | | | | | | | | | | 4 | | | 3.598 11.189 | 0.000 1.999 | p-4 | 0.000 12.917 | 075-293 662-269 | |
|--------------------|-------------|------------------|---------------------------------|-----------------------------|---------------------------------|---------------------|----------------------------------|--------------------------|---------------------------------|-------------------------------|--|-------------------------------|--|-----------------------|-------------------------------|--|-----------------------------------|---------------------------------------|------------------------|---|--------------------------------|------------------|--------------------------------|-------------------------|--------------------------------------|---|-----------------------|------------------|------------------|-------------|---------------|---|---|-----------------------|-------------------------------|---------------------|-------------------------|--------------------------------|--|---|----------------------------------|--|------------------------------|--|-----------------|-------|
| SPACE AND PROPERTY | COMPACTEE! | DTHER | | - | | | | 0 | _ | 100 | | | | - | - | | | | ī. | | ~ | | | - | _ | 20 | | | | | m | | | - | | ~ | | 25 | | 19 198.731 | 106 | 1.823 | 003*0 00 | 000-0 | 7 5280-785 | |
| ACE AND PROF | TUUSANUS UF | | | 4 | | | - | 776 24-600 | | | | | | | 4 | | | • | ~ | | 200 17-605 | | | | | | m | | | | | | | . • | _ | | | • | | 13.819 | 2 | | .202 0.000 | 99*85 00: | 121 2485.347 | |
| SPACE | SPACE (1) | ACRES LABORATORY | 8 26.933 | 6 0 | 45 0.056 | ٥ | 3380 277-823 | 4 176-776 | 0 0.017 | 631 19,013 | 1 | | | * | | 279 142,900 | | - | | ~ | ••• | | | | | 38 | | | 0 21.523 | | | | 0 | - | | ٠, | | w | | 57 93.217 | 180 103-517 | 25 | 1125 361.2 | | 37814 8636-021 | |
| | | | FT. RUCKER, AL. | MOUNTAIN VIEW, CAL- | WHITE SANDS MR, N.M. | EATONTOWN, N.J. | ABERDEEN PROV GR. MD. | HATER VLIET, N.Y. | ABERDEEN PROV GR, MD. | HANOVER, N.H. | MC AMDUTH, | FT. MONMOUTH, N.J. | _ | | FT. MONMOUTH, N.J. | FT. MONMOUTH, N.J. | FT. BELVOIR, VA. | VICKSBURG, MISS. | PHILADELPHIA, PA. | | ABERDEEN PROV GR, MD. | MASHINGTON, D.C. | FT. SAM HOUSTON, TX. | | PRESIDIO, S.F., CAL. | | ABERDEEN PROV GR. MD. | WASHINGTON, D.C. | FT. TOTTEN, N.Y. | DENVER, CO. | FT. KNOX, KY. | _ | | REDSTONE ARSENAL, AL. | FT. BELVUIR, VA. | NATICK, MASS. | FT. BELVOIR, VA. | DOVER, N.J. | | FT. DETRICK, MD. | ROCK ISLAND, IL. | MASHINGTON, D.C. | WARREN, MI. | WASHINGTON, D.C. | | |
| | NOTE | | AEROMEDICAL RESEGREH LABORATORY | AIR MOBILITY RED LABORATORY | ATMOSPHERIC SCIENCES LABORATORY | AVIONICS LABORATORY | BALLISTICS RESEARCH LABORATORIES | BENET WEAPONS LABORATORY | COATING AND CHEMICAL LABORATORY | COLD REGIONS REE LABORATORIES | COMBAT SURVEILLANCE & TGT ACQUISITION LABS | COMMUNICATIONS ADP LABORATORY | CONSTRUCTION ENGINEERING RESEARCH LABORATORY | EDGEWOOD ARSENAL LABS | ELECTRONIC WARFARE LABORATORY | ELECTRONICS TECHNOLOGY AND DEVICES LAB | ENGINEER TOPOGRAPHIC LABORATORIES | ENGINEER WATERWAYS EXPERIMENT STATION | FRANKFORD ARSENAL LABS | | E HUMAN ENGINEERING LABORATORY | INSTITUTE OF | INSTITUTE OF SURGICAL RESEARCH | LAND WARFARE LABORATORY | LETTERMAN ARMY INSTITUTE OF RESEARCH | MATERIALS AND MECHANICS RESEARCH CENTER | | | | | | | | AND | MOBILITY EQUIPMENT RED CENTER | NATICK LABORATORIES | NIGHT VISION LABORATORY | PICATINNY ARSENAL LABORATORIES | RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE | RESEARCH INSTITUTE OF INFECTIOUS DISEASES | ROCK ISLAND ARSENAL LABORATORIES | RSCH INST FOR BEHAVIORAL AND SOCIAL SCIENCES | TANK-AUTOMOTIVE COMMAND LABS | WALTER REED ARMY INSTITUTE OF RESEARCH | TOTALS | 716.7 |

TABLE 3A. NAVY RED LABORATORIES, PROGRAM AND PERSONNEL DATA, FT 1972

| | | | FUNDING | DATA | (HILLIONS | 3 | | PER | PERSONNEL | IL DATA | « | |
|---|---|--------------------|----------------------------------|---------|-----------|---------|-------|----------------|-----------|---------|-------------|-------------|
| | INSTALLATION | | | | TOTAL | INHOUSE | TOTAL | rotal | OH4 | | R 05 | PROF |
| | | | TOTAL | | RDTEE | ROTEE | MIL | CΙ | HIL | | HI! | ~ 12 |
| | ENVIRONMENTAL PREDICTION RESEARCH FACILITY MON | MONTEREY, CA. | 1.158 | | 1.079 | 0.896 | 16 | 27 | | | ;. . | 52 |
| | ARCH LABORATORY P | ENSACOLA, FL. | 3.708 | | 3.408 | 3.408 | 31 | 123 | 11 | | 67 | 6 |
| | 7 | IOHUSVILLE, 24. | 104.202 | | 71.889 | 37.207 | 389 | 2335 | 11 | | 107 | 1042 |
| | NAVAL AIR ENGINEERING CENTER PHI | PHILADELPHIA, PA. | 78.997 | | 12.813 | 8.162 | 37 | 2198 | 0 | | 15 | 904 |
| | NAVAL BLOOD RESEARCH LABORATORY CHE | ELSEA, MS. | 0.469 | | 0.332 | 0.332 | 2 | 13 | 4 | | • | 0 |
| | | PORT YUENEME, CA. | 11.787 | 8.434 | 9.700 | 6.833 | 21 | 361 | - | e E | σ | 196 |
| | TIN | FICK, MS. | 1.205 | | 0.558 | 0.558 | - | 9 | 0 | | - | 23 |
| | | A DIEGO, CA. | 59.325 | | 32.774 | 29.981 | 96 | 1468 | ~ | | 99 | 737 |
| | NAVAL MEDICAL FIELD RESEARCH LABORATORY CAM | CAMP LEJEUNE, N.C. | 1.189 | | 0.821 | 0.821 | 37 | 51 | 4 | | 9 | = |
| | RESEARCH INSTITUTE | BETHESDA, MD. | 6.543 | | 4-323 | 4-328 | 204 | 207 | 48 | | 901 | 73 |
| | RESEARCH UNIT NO. 1 | KELEY, CA. | 6.268 | | 0.047 | 0.047 | 91 | 7 | 4 | | L | 0 |
| X | NO. 2 | IPEI, TAIMAN | 2,035 | | 1.489 | 1.489 | 35 | 6 | 13 | | 30 | 2 |
| • | NAVAL MEDICAL RESEARCH UNIT NO. 3 CAT | IRU, EGYPT | 1.854 | | 0.758 | 0.758 | 31 | 108 | ಛ | | 12 | 4 |
| | NAVAL MEDICAL RESEARCH UNIT NO. 4 GRE | EAT LAKES, IL | 1.140 | | 0.760 | 0.760 | 38 | * | 'n | | 14 | 13 |
| | NAVAL ORDNANCE LABORATORY | ITE DAK, MD. | 101, 150 | | 78.696 | 43.332 | 23 | 2847 | - | | 27 | 114 |
| | | MASHINGTON, D.C. | 3.673 | | 2-284 | 2.211 | 43 | 197 | 0 | | 47 | 120 |
| | MAVAL PERSONNEL RESEARCH ACTIVITY SAN | W DIEGD, CA | 3.971 | | 3.340 | 3.340 | 34 | 165 | 0 | | 34 | 6 |
| | | SHINGTON, D.C. | 145.678 | | 120.057 | 114.427 | 114 | 3986 | m | _ | o | 1476 |
| | MAVAL SHIP RED LABORATORY | WAMA CITY, FL. | 14.570 | | 7.380 | 6.301 | 136 | 587 | N | | 15 | 240 |
| | | SHINGTON, D.C. | 103.696 | | 78.889 | 28.455 | 50 | 3072 | 7 | | 54 | 1232 |
| | MAYAL SUBMARINE MEDICAL RESEARCH LABORATORY NEW | I LONDON, CT. | 1.950 | | 1.446 | 1.446 | 45 | 67 | - | | 16 | 37 |
| | NAVAL UNDERSEA RED CENTER | N DIEGO, CA. | 78.596 | | 43.893 | 31,374 | 284 | 1691 | 0 | | 35 | 683 |
| | NAVAL UNDERWATER SYSTEMS CENTER | PORT, R.I. | 116.421 | | 49.143 | 39.445 | 63 | 3140 | ဂ | | 23 | 1359 |
| | NAVAL WEAPONS CENTER CHI | INA LAKE, CA. | 172.091 | | 105.453 | 68.527 | 716 | 4592 | 0 | | 45 | 1453 |
| | NAVAL WEAPONS LABORATORY | KGREN, VA. | 83.325 | | 29.369 | 19.469 | 108 | 2703 | 0 | | 27 | 1029 |
| | NAVY MEDICAL NEUROPSYCHIATRIC LESEARCH UNIT SAN | SAN DIEGO, CA | 1.492 | | 0.975 | 0.975 | 13 | 28 | 11 | | 14 | 56 |
| | TOTALS | | 1100.503 741.245 666.676 454.887 | 741-245 | 566.676 | 454.887 | 2654 | 2654 30108 138 | | 1366 | 713 1 | 11475 |

TABLE 44. NAVY RED FACILITIES DATA, FY 1972

Mark Andrews Andrews

| (RE FEET) COST (MILLIONS \$) | 140 de | OTHER PROPERTY FOILT PARKI | €00.0 | 2.807 | 22.912 3 | | 000*0 | | 0.275 | 221-523 11-077 36-203 | 15.590 0.528 0.657 | | | 0.101 | 6.344 | 18.975 0.440 | 46.618 | 1.420 0.652 0.450 | 5.210 | 664-139 77-247 59-343 | | | 12.638 0.885 | 38.846 | 795.281 28.598 32.915 | 229,339 | 808.830 63.573 31.101 | _ | 153.594 645.235 |
|--|--------------|----------------------------|--|---|-----------------|-------------------|--------------|-------------------|-------------|-----------------------|--------------------|---------------|---------------|-----------------------------|--------------|-----------------|----------------|-------------------|-------------------|-----------------------|------------------|--|-----------------|---------------------------|-----------------------|----------------------|--------------------------|---|--------------------|
| SPACE AND PROPERTY (THOUSANDS OF SQUARE FEET) | | ADKIN | | 19.60÷ | 26.080 | 177-625 | 0.160 | 21.977 | 7.000 | 157,531 | 8.655 | 21.561 | 0.360 | 38-674 | 9.500 | 16.716 | 178,085 | 2.703 | 006. 4 | 135.662 | 35.296 | _ | 6.441 | 33.457 | 121.655 | | 3.655 | 4.500 | 1448.570 13153.594 |
| SPACE (THOUS | | ACRES LABORATORY | 0.806 | 131,787 | 815.970 | 1373-426 | 000-9 | 120-352 | 10-000 | 461.555 | 26.226 | 151-730 | 00000 | 32-780 | 18.242 | 22.053 | 388.021 | 22-156 | 47.300 | 2241.527 | 172-445 | 318-012 | 23.325 | 336.960 | 625.928 | 722-689 | 484.567 | 13.977 | 8569,774 |
| ï | | ACRES | 0 | 0 | 831 | 560 | 0 | 22 | 2 | 1591 | m | 4 | 0 | 8 | m | - | 1059 | 0 | , i | 2161 | 429 | 325 | 0 | 37575 | 835 | 1093019 | 4490 | 0 | 1143158 |
| | | | MONTEREY, CA. | PENSACOLA, FL. | JOHNSVILLE, PA. | PHILADELPHIA, PA. | CHELSEA, MS. | PORT HUENEME, CA. | NATICK, MS. | SAN DIEGO, CA. | CAMP LEJEUNE, N.C. | BETHESDA, MD. | BERKELEY, CA. | TAIPEI, TAIWAN | CAIRO, EGYPT | CREAT LAKES, IL | WHITE DAK, MD. | MASHINGTON, D.C. | SAN DIEGO, CA | WASHINGTON, D.C. | PANAMA CITY, FL. | MASHINGTON, D.C. | HEN LONDON, CT. | SAN DIESO, CA. | NEWPORT, R.I. | CHINA LAKE, CA. | DAHLGREN, VA. | SAN DIEGO, CA | |
| | INSTALLATION | | ENVIRONMENTAL PREDICTION RESEARCH FACILITY | NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY | | | | | | | MEDICAL | MEDICAL | MEDICAL | NAVAL MEDICAL RESEARCH UNIT | | NAVAL | | | | | | NAVAL SHIP RESEARCH AND DEVELUPMENT CENTER | | NAVAL UNDERSEA RED CENTER | | NAVAL WEAPONS CENTER | NAVAL WEAPONS LABORATORY | NAVY MEDICAL NEUROPSYCHIATRIC RESERRCH UNIT | TGTALS |

TABLE 5A. AIR FORCE RED LABORATORIES, PROGRAM AND PERSONNEL DATA, FY 1972

| TOTAL TOTAL | PERSONNEL DATA | TOTAL TOTAL PHD PHD PROF F | MIL CIV MIL CIV MIL | 51 541 4 10 47 | 72 173 22 43 56 | 161 584 17 20 103 | 182 977 14 159 70 | 198 941 4 34 97 511 | 22 9 11 1 22 | 134 231 7 38 91 | 60 337 20 46 60 | 188 298 17 6 91 | 325 1130 6 15 119 | 796 397 36 20 572 | 127 168 29 26 77 | 2316 5586 247 418 1405 3006 |
|--|----------------|----------------------------|---------------------|----------------|-----------------|-------------------|---|---------------------|--------------|-----------------|-----------------|---------------------|-------------------|-------------------|------------------|-----------------------------|
| TOTAL IN TOTAL IN TOTAL IN TOTAL IN TOTAL IN WPAFB, OH. L.G. HANSCOM FLD, MS. 60.959 3 L.G. HANSCOM FLD, MS. 60.959 3 L.G. HANSCOM FLD, MS. 60.959 3 MPAFB, OH. SORATORY BROOKS ACADEMY, CO. 11.348 MPAFB, OH 56.043 11.348 EDWARDS AFB, TX. 56.043 11.348 MPAFB, OH 56.043 14.318 XIRTLAND AFB, N.Y. 166.205 3 XIRTLAND AFB, N.W. 14.318 14.318 | (MILLIONS \$) | TOTAL | ROTEE | 60.830 | 12.754 | 100.858 | 56.240 | 68-472 | 0.570 | 10.090 | 44.909 | 25.851 | 92.745 | 75.218 | 12.798 | 561.335 171.166 |
| WPAFB, OH- WPAFB, OH- WPAFB, OH- L.G. HANSCOM FLD, WPAFB, OH- WPAFB, OH- WPAFB, OH- WPAFB, OH- EDWARDS AFB, TX- EDWARDS AFB, CA- GRIFFISS AFB, N-Y- XIRTLAND AFB, N-M- XIRTLAND AFB, N-M- XIRTLAND AFB, N-M- | | TOTAL | | | | | | | | | | | | | | 682.665 200.330 |
| AT TENE | | MCIE | | | | | SAA TOO TOO TOO TOO TOO TOO TOO TOO TOO T | ND AFR. OH. | | | S THORNWICK | ABOUT ABOUT A STORY | | | | TOTALS |

TABLE 64. AIR FORCE RED FACILITIES DATA, FY 1972

| | | | | • | | | | |
|---|--|-----------------------|----------|---|-----------|------------------|-------------------|------------------|
| | | | ď | SPACE AND PROPERTY SPACE (THOUSANDS OF SOURRE FFET) | NO PROPER | TY DARE FEET) | COST (MILLIONS S) | IONS \$1 |
| | INSTALLATION | | i | | | | REAL | |
| | | | ACRES | ACRES LABORATORY | ADMIN | OTHER | ¥ | EQUIPMENT |
| , | AEROPROPULSION LABORATORY | WPAFB , OH. | 649 | 309-500 | 66.500 | 274.775 | 12.894 | 16.713 |
| _ | AEROSPACE RESEARCH LABORATORIES | WPAFB, OH | r) | 134.953 | 49.837 | 34.719 | 12.625 | 12.603 |
| _ | AVIONICS LABORATORY | WPAFB, OH. | 264 | 218,583 | 5.304 | 264-277 | 21.008 | 35.638 |
| | CAMBRIDGE RESEARCH LABS | L.G. HANSCOM FLD, MS. | 859 | 614,773 | 19-708 | 125.516 | 20.554 | 64.228 |
| | FLIGHT DYNAMICS LABORATORY | WPAFB, OH. | 90 | 541.130 | 60.600 | 26.000 | 22, 705 | 54.000 |
| - | FRANK J. SEILER RESEARCH LABORATORY | USAF ACADEMY, CO. | 0 | 9.394 | 2.860 | 0.240 | 1.287 | 1.483 |
| | HUMAN RESOURCES LABORATORY | BROOKS AFB, TX. | 13 | 65.679 | 29.544 | 31.539 | 1.925 | 4.102 |
| _ | MATERIALS LAB | WPAFB OH | 6 | 0.117 | 0.061 | 0.038 | 6.750 | 10.396 |
| | ROCKET PROPULSION LABORATORY | EDWARDS AFB, CA. | 54400 | 419.046 | 99.248 | 4.780 | 29.869 | 24.003 |
| | ROME AIR DEVELOPMENT CENTER | GRIFFISS AFB, N.Y. | 2817 | 719.708 | 92.402 | 238.531 | 29.351 | 72-699 |
| | WEAPONS LABORATORY | KIRTLAND AFB, N.H. | 934 | 428.659 | 14.620 | 22,187 | 10.791 | 33.887 |
| - | 6570 AEROSPACE MEDICAL RESEARCH LABORATORY | WPAFB, OH | 30 | 211.900 | 10.000 | 15.200 | 11.570 | 15.938 |
| | TOTALS | | 59490 | 3670.442 | 450-684 | 1038.202 | 181.329 | 345.690 |

The state of the s

TABLE 74. DEPARTMENT OF DEFENSE RDT&E FACILITIES DATA, FY 1972

| 7.899 2.849 | | 32,913 | 14.906 | 10 24.660 14.906 | 01 | | TOTALS |
|---|---|--|-----------------|-------------------------------|----------|--------------------|--|
| REAL Property squipment 7.899 2.849 | | OTHER 32.913 | ADMIN 14.506 | ACRES LABORATORY 10 24.660 | ACRES 10 | BETHESDA, MARYLAND | ARMED FORCES RADIOBIOLOGY RES. INSTITUTE |
| COST (MILLIONS \$) | _ | SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET) | IND PROPER | SPACE A | Š | | INSTALLATION |

C.O. COL ROBERT W. BAILEY TECH. DIR. DR. E.J. BALDES

| | PROGRAM DATA BY FISCA | AL YEAR (MILLION \$) |
|-----------------------|-----------------------|----------------------|
| PROGRAM | 1972 | 1973 |
| | (ACTUAL) | (ACT + EST) |
| TOTAL ROTEE | 1.285 | 1-375 |
| TOTAL PROCUREMENT | 0.000 | 0.000 |
| TOTAL OEM | 0.000 | 0.000 |
| TOTAL OTHER | 0.583 | 0.531 |
| TOTAL ANNUAL LAB | 1.868 | 1.906 |
| TOTAL INHOUSE | 1.868 | 1.906 |
| TOTAL INHOUSE ROTEE | 1.285 | 1.375 |
| ANNUAL OPERATING COST | 0.773 | 0.878 |
| PERSO | NNEL DATA LEND DE EL | 1972) |

| | PERSONNEL DATA | (END OF FY | — · · — · | |
|-----------|----------------|------------|------------------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHD\$ | PROF | PROF |
| MILITARY | 48 | 17 | 35 | 13 |
| CIVILIAN | 25 | 2 | 4 | 21 |
| TOTAL | 73 | 19 | 39 | 34 |

| | | | D PROPERTY | | | |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | T) | COST (MILL | ION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 8 | 26.933 | 5.940 | 7.470 | 40.343 | 0.379 | 2.186 |

TO CONDUCT TIMELY STUDIES ON CURRENT AND ANTICIPATED RESEARCH PROBLEMS OF A FUNDAMENTAL OR IMMEDIATE NATURE RELEVANT TO ARMY AVIATION AND AIRBORNE OPERATIONS AND PHYSICAL PERFORMANCE STANDARDS AND THE MEDICAL ASPECTS OF RETENTION AND SELECTION OF AVIATORS AND PARACHUTISTS.

...CURRENT IMPORTANT PROGRAMS
RESEARCH PSYCHOLOGY APPLIED TO MEDICALLY SIGNIFICANT ARMY AVN PROBLEMS.
MEDICAL RESEARCH APPLIED TO THE PROBLEMS IN ARMY AVN.
RESEARCH OF VISUAL PROBLEMS MEDICALLY SIGNIFICANT TO ARMY AVN.
RESEARCH OF PSYCHOACOUSTICAL PROBLEMS MEDICALLY SIGNIFICANT TO ARMY AVN.
RESEARCH OF BIOENGINEERING PROBLEMS MEDICALLY SIGNIFICANT TO ARMY AVN.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
EQUIPMENT INCLUDES A SOUNDPROOF HEARING ROOM, ANECHOIC CHAMBER, COLORIMETER, ECG AND EEG MACHINES, A BIOCHEMISTRY LAB, AN ELECTRONICS AND
ENGINEERING FABRICATION SHOP, PHOTOGRAPHY LAB AND AIRBORNE MONITORING
EQUIPMENT. EQUIPMENT IS USED TO STUDY THE PHYSIOLOGY AND PSYCHOLOGICAL ASPECTS OF AVIATION AND AIRBORNE PERSONNEL IN THE TRAINING AND
OPERATIONAL ENVIRONMENT.

PRES. COL WILLIAM H. HOLCOMBE

| | PRO | GRAM DATA | BY FISC | AL YEAR | MILLION | \$) | |
|-----------------|------------|-----------|--------------|------------|---------|-------------|---|
| PROGRAM | | 197 | 2 | 197 | 73 | | |
| | | (ACTUA | L) | (ACT + E | ST) | | |
| TOTAL RDT&E | | 5 | . 057 | 2 | 2.964 | | |
| TUTAL PROCUREM | IENT | 0 | .000 | (| 0.000 | | |
| TOTAL DEM | | 0 | .000 | (| 0.000 | | |
| TOTAL OTHER | | 2 | .942 | 3 | 3.580 | | |
| TOTAL ARNUAL L | ΔR | _ | .999 | | 5-544 | | |
| IDIAL MINORE | | • | | • | | | |
| TOTAL INHOUSE | | 7 | .979 | | 5.370 | | |
| TOTAL INHOUSE | ROTEF | | .037 | | 2.790 | | |
| ANNUAL OPERATI | | | .576 | | 0.625 | | |
| ANNONE OF CRAFT | | • | | · | | | |
| | PERSONNE | I DATA (F | ND OF F | Y 1972) | | | |
| PERSONNEL | AUTHORIZED | | OTAL | | DTAL | NON- | |
| CROOMICE | STRENGTH | | PHDS | | PRCF | PROF | |
| MILITARY | 342 | | 1 | | 42 | 300 | |
| CIVILIAN | 117 | | õ | | 11 | 106 | |
| | 459 | | ĭ | | 53 | 406 | |
| TOTAL | 427 | | • | | 23 | 700 | |
| | | SPACE AND | PROPERT | · v | | | |
| ACRES | SPACE (THO | | | | COST | (MILLION S) | |
| A01123 | L AB | ADMIN | OTHER | TOTAL | | |) |
| 26 | 36.550 | 38.646 | 52.724 | 127.9 | _ | .895 11.024 | |

---MISSION
PLAN CONDUCT REPORT ON ST & CHECKTEST OF AIR DEF EQUIP & SYSPARTICIPATE IN ENG TEST INIT PROD TEST PRE-PROD TEST & OTHER TESTSPROVIDE ADVICE TO PROPONENT AGENCIES DURING DEVELOPMENT OF EQUIPMENT.

---CURRENT IMPORTANT PROGRAMS
VULCAN GUNNER TRACKING EVALUATOR
CHECKTEST AN/MWM-3 FOR VULCAN
ENGINEER ING/SERVICE TEST AN/TSQ-73
SERVICE TEST AN/TPX-46 INTERROGATOR
SUPPORT ROLAND II MISSLE WEAPON SYSTEM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ASSURE MAX UTILIZATION OF RESOURCES IN ACCOMPLISHMENT OF MSN. PLAN, CONDUCT, RECORD & REPORT RESULTS OF TEST & EVAL OF WPN SYS & FIRE DIST SYS.
EVAL ITEMS FOR SAFETY, SUIT FOR ARMY USE &/OR SUIT FOR ISSUANCE TO FLD.
COMMENT ON QMOD/QMR/SDR & MNT PKG. ASSIST IN REVISION OF MIL SPECS. PROVIDE TEST REQUIREMENTS FOR TEST PLAN. CONDUCT PROGRAM IN TEST
METHODOLOGY TO ASSURE PROPER TEST REPORTS. SUPPORTS FLD RSCH STUDIES,
TESTS & OPNS. PROVIDE REPRESENTATION FOR ARMY BOARDS, COMMITTEES & SYMPOSIA. ASSIST IN PREP OF TNG LITERATURE AND SELECTION OF TNG AIDS.
EQUIPMENT COMPUTER TAC & INSTRUMENTATION RADAR, AUTOMATED DATA
ACQUISITION SYSTEMS CINETHEODOLITES PHOTO LAB & FILM READING EQUIP.
SITE MONITOR FOR ELECTRONIC TEST OF EQUIP AND DCNA ANA RANGE FOR FIRING
FORWARD AREA WEAPONS TARGET DEVICES AND TARGET ORONES.

85.014

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DIR. PAUL F. YAGGY DEPUTY DIR. NORMAN L. ROBINSON

| | | PROGRAM | | FISCAL | YEAR (MI | LLION | \$) |
|--------|----------------|--------------|----------|------------|-----------|-----------|--------------|
| PROGRA | M | | 1972 | | 1973 | | |
| | | (| ACTUAL) | () | ACT + EST | ') | |
| TOTAL | ROTEE | | 43.0 | 21 | 33.6 | 75 | |
| TOTAL | PROCUR EMENT | | 0.00 | 00 | 0.0 | 00 | |
| TOTAL | M30 | | 0.00 |)1 | 0.0 | 01 | |
| TOTAL | | | 0.6 | 9 | 0.5 | 38 | |
| | ANNUAL LAB | | 43.6 | = | 34.2 | | |
| | WILLIAME ENV | | .5.4 | , • | 5 | • | |
| TOYAL | INHOUSE | | 13.4 | 58 | 12.5 | 53 | |
| | INHOUSE ROTEE | | 12.8 | - | 12.0 | | |
| | OPERATING CO | | 1.9 | _ | 2.1 | | |
| ANNUAL | . UPERAIING CO | 31 | 109 | 12 | 201 | .01 | |
| | • | COCOMMES DAT | ra read | OE EV 1 | 10721 | | |
| 25050 | | ERSONNEL DAT | | OF FY 1 | | . 1 | NON- |
| PERSON | | ORIZED | TOT | | TOTA | | |
| | ST | RENGTH | PHI |)S | PRO |)F | PROF |
| MILITA | NRY | 34 | | 1 | 34 | • | 0 |
| CIVIL | AN | 575 | | 26 | 236 | , | 339 |
| TOTAL | | 609 | | 2 7 | 270 |) | 339 |
| | | | | | | | - |
| | | SPACE | AND PR | OPERTY | | | |
| ACRE | S SPAC | E (THOUSANDS | S OF SOU | ARE FEET | T) | COST | (MILLION \$) |
| | | LAB ADMI | | THER | TOTAL | REAL | |

...MISSION
MANAGES AND EXECUTES R&D OF ARMY AIRMOBILE SYSTEMS.THROUGH DOMONSTRATION
OF TECHNOLOGY. PROVIDES TECHNICAL SUPPORT TO PROJECT/PRODUCT MANAGERS &
SYSTEM DEVELOPERS AS REQUIRED. PROVIDES INDEPENDENT TECHNICAL RISK ASSES
SMENT TO CG USAAVSCOM AND 'TIGHER AUTHORITY.

15.584

143.906

1.474

5.446

current important programs
research in fundamental fotor aerodynamics.phynamics & noise.
resfarch & development of small gas turbines.

43.308

TO IMPROVE RELIABILITY & MAINTAINABILITY OF AIRMOBILE SYSTEMS.

.H. COMPOSITES & MEASURE OPNL. FLT.LOADS TO IMPROVE STRUCTURES FOR A/C

.VOLVE TECHNOLOGY & CRITERIA TO IMPROVE FLIGHT SAFETY & SURVIVABILITY.

THREE DIRECTORATES AT MOFFETT FIELD CAL, CLEVELAND OHIO, HAMPTON VAGCOLOC ATED WITH NASA, PARTICIPATING IN RESEARCH OF AIRMOBILE SYSTEMS & DISCIPLI NES, JOINTLY USING WIND TUNNELS, SIMULATORS & LABORATORY TEST FACILITIES, INCLUDING SHOPS, FLIGHT LINE & HANGAR, STRUCTURE LAB, ENGINE TEST FACILITIES & & COMPUTATIONAL EQUIPMENT. FOURTH DIRECTORATE AT FORT EUSTIS VA., PERFOR MING ADVANCED APPLICATIONS WORK. MAJOR EQUIPMENT & FACILITIES: FILAMENT WINDING MACHINES, TENSILE TESTERS, VIBRATION TESTER, SMALL BALLISTIC RANGE, CALIBRATION LAB, ENVIRONMENT CHAMBER, ATOMIC ABSORPTION SPECTR, TELEMETER GROUND STATION, NON-DESTRUCT TESTING FACILITY, FLIGHT SAFETY LAB.

TENED STEERING

INSTALLATION AIRBORNE COMMUNICATIONS & ELECTRONICS BOARD FT. BRAGG, N.C.

PRES. COL PETER E. KELLEY ENGIN. ADV. EDWIN S. SPAINHOUR

| | PROGRAM DATA BY FISCA | AL YEAR (MILLION | 5) |
|-----------------------|-----------------------|------------------|------|
| PRUGR#M | 1972 | 1973 | • • |
| | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | 1.488 | 1.645 | |
| TOTAL PROCUREMENT | 0.000 | 0.000 | |
| TOTAL GEM | 0.000 | 0.000 | |
| TOTAL OTHER | 1.907 | 2.000 | |
| TOTAL ANNUAL LAB | 3.395 | 3.645 | |
| TOTAL THUOLOG | 2 705 | 2 115 | |
| TOTAL INHOUSE | 3.395 | 3.645 | |
| TOTAL INHOUSE ROTEE | 1.488 | 1.645 | |
| ANNUAL OPERATING COST | 0.737 | 0.792 | |
| PERS | SONNEL DATA (END OF F | Y 1972) | |
| PERSONNEL AUTHORI | TOTAL | TOTAL | NON- |
| STREM | NGTH PHDS | PROF | PROF |
| MILITARY | 207 0 | 41 | 166 |
| CIVILIAN | 61 0 | 8 | 53 |

| ACRES | SPACE (THO | | D PROPERTY Square fe | | COST (MILL | ION \$) |
|-------|------------|--------|-------------------------|---------|------------|---------|
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 27 | 0.000 | 50.879 | 114-000 | 164.879 | 4.190 | 3.090 |

219

PLAN, CONDUCT, AND REPORT ON EXPANDED SERVICE TESTS AND CHECK TESTS OF A IRBORNE, COMMUNICATIONS, AND ELECTRONICS EQUIPMENT AND SYSTEMS. THE COMMUNICATIONS AND ELECTRONICS—TYPE TESTS ARE USED AT DIV LEVEL OR BELOW. THE AIRBORNE TSTS PERTAIN TO EQIP AND SYS WHICH SUPP AIRDROP & TRANSPORT.

...CURRENT IMPORTANT PROGRAMS
TEST OF THE AERIAL RECOVERY KIT
TEST OF JOINT SERVICE INTERIOR INTRUSION DEVICE
TEST OF PARKHILL (COMMUNICATIONS SECURITY)
TEST OF AN-USD-501 AIRBORNE SURVEILLANCE DRONE SYSTEM
TEST OF FORWARD AREA TELETYPEWRITER SET

268

JATCT

***FUNCTIONS/EQUIPMENT/CAPABILITIES
FACILITIES INCLUDE: HANGAR BLD, COMMUNICATIONS-ELECTRONICS FACILITY, CRY
TOGRAPHIC TEST FACILITY, AND WOODWORK SHOP. MAJOR EQUIPMENT INCLUDES:
2 T-28B AIRCRAFT, 40000-POUND LOADER, 5-TON WRECKER, 20-TON MOBILE CRANE,
3 SEMITRAILERS, SEVERAL STANDARD VEHICLES, 1 U-6 AIRCRAFT, 1 UH-1 AIRCRAFT, VARIOUS TYPES OF STANDARD PARACHUTES, STANDARD PLATFORMS, HINE
GASOLINE DRIVEN GENERATORS, BALLASTABLE AIRDROP VEHICLES WITH REMOVABLE
WEIGHT INCREMENTS, THREE ANEMOMETERS, VARIOUS THERMOMETERS, STOPWATCHES,
ELEVEN TACTICAL RADIO SETS, TWO RADIO RECEIVERS, SIX TELETYPEWRITER SETS
, TWENTY TWO SIGNAL GENERATORS, TWO LEVEL METERS, 1 SOUND AND VIBRATION:
ANALYZER, 1 PHOTO ANALYZER, 5 OSCILLOGRAPHS, CLOSED CIRCUIT VIDEO EQUIPMENT, STRAIN GUAGES, ACCELLEROMETERS, AND GALVINOMETERS.

C.O. COL DAVID J. SCHUMACHER TECH. DIR. JERRELL L. SANDERS

| 1972 | 1973 |
|----------|---|
| (ACTUAL) | (ACT + EST) |
| 2.627 | 2.472 |
| 0.027 | 0.000 |
| 0.003 | 0.038 |
| 2.232 | 2.300 |
| 4.889 | 4.810 |
| 4 • 859 | 4.772 |
| 2.606 | 2.434 |
| 2-212 | 2.500 |
| | 2.627 0.027 0.003 2.232 4.889 4.859 2.606 |

| | PERSONNEL DATA | (END OF FY | 1972) | |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 321 | 1 | 26 | 295 |
| CIVILIAN | 29 | 0 | 6 | 23 |
| TOTAL | 350 | 1 | 32 | 318 |

| | | SPACE AN | D PROPERTY | | | |
|--------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THE | USANDS OF | SQUARE FE | ET) | COST (MILL | ION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 726014 | 20.550 | 30.600 | 229.847 | 280.997 | 13.158 | 4.063 |

PLAN COND & RPT ON ENVIRON PHASES OF ENG TESTS, EXP SVC TESTS, CK TESTS, INITIAL PROD TEST, MIL POY TEST & APPROP PRE-PROD TEST. TO PROVIDE ADV TO PROP AGENCIES AND MAT DEV. COND OTHER TEST & EVAL AS DIR BY CG, TECOM.PROV SUPP TO DOD, AND OTHER DA SUB-EL, AS DIR, FOR SVC3 NOT SHOWN.

...CURRENT IMPORTANT PROGRAMS
MISSILE GUIDED.DRAGON
HELICOPTER CH-47C
PORTABLE MULTI-SHOT FLAME WEAPON
AERIAL MINE DISPERSING SYSTEM
HOOD EXTREME COLD WEATHER ARTIFICIAL RUFF

...FUNCTIONS/EQUIPMENT/CAPABILITIES
THE ATC FAC WITH FEW EXCEP CAN BE USED FOR MULT APPL'S IN ACCOMP TESTS
ALLOWING THE CEN TO ACC A NO OR VAR OF TEST ITEMS AT ANY ONE TIME. ALL
FIRING RGS ARE ORIENTED TO FT GREELY 500,000 ACRE IMPACT AREA WEST OF
DELTA R.THIS AREA PROVIDES A MAX UNOBS RG OF 50,000 METERS.A MAJORITY OF
THIS AREA IS WITHIN RESTR AIRSPACE ALLOWING UNRESTR FIRING TO A MAX ORD
OF 5,000 FT. COORD WITH LOCAL FAA FLT SVC CAN EFFECT UNLIMITED ORDINATE
CAP OVER ALL FIRING RGS. 1ST,2D OF 3RD ORDER SURVEY MONUMENTS EXIST NEAR
ALL THE CEN FIRING RGS & TEST SITES.A GOOD SECONDARY RD SYS CONNECTS ALL
RGS TO THE ALASKA & RICHARDSON HYWS. CLASS A TEL CAP EXISTS WITH PRIN
RGS & A NON-TACTICAL RADIO NET PROV ALT COMMO WITH ALL PARTS OF THE RES.
ADEQUATE MAINT FAC FOR DS&GS SUPP OF MOST ITEMS,TO INCL ACFT,ARE ORG TO
THE CEN. THE CEN HAS CMPTR FAC ADQUATE FOR ANY RQMT.MET FAC ARE AVAIL.

PRES. COL JOHN P. BERRES

| | PROGRAM | DATA BY FISCAL | YEAR (MILLION | \$) |
|----------------|------------------|----------------|---------------|------------|
| PROGRAM | | 1972 | 1973 | |
| | (| ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 2.186 | 2.178 | |
| TOTAL PROCUREN | ENT | 0.261 | 0.250 | |
| MAG JATOT | | 0.000 | 0.000 | |
| TOTAL OTHER | | 3.200 | 3.440 | |
| TOTAL ANNUAL L | .AB | 5.647 | 5-868 | |
| TOTAL INHOUSE | | 5.647 | 5.868 | |
| TOTAL INHOUSE | RDT&E | 2.186 | 2.178 | |
| ANNUAL OPERATI | ING COST | 0.390 | 0.441 | |
| | PERSONNEL DAT | A (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | FHDS | PROF | PROF |
| MILITARY | 450 | 0 | 97 | 353 |
| CIVILIAN | 101 | Ó | 1 | 100 |
| TOTAL | 551 | 0 | 98 | 453 |
| | SPACE | AND PROPERTY | | |
| ACRES | SPACE ITHOUSANDS | | ETE COST | INTLITON & |

| ACRES | SPACE (THO | | SQUARE FE | | COST (MILL | .ION \$) |
|-------|------------|--------|-----------|---------|------------|----------|
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 6900 | 6 • 200 | 68.068 | 166.374 | 240.642 | 1.419 | 2.355 |

---MISSION
PLAN, CONDUCT, AND REPORT ON EST, MPT, AND CHECK TEST OF ARMOR AND ENG
ENGINEER EQUIPMENT, AUTO SYS AND MATERIAL, AND ATOMIC DEMO MUNITIONS.
PARTICIPATE IN ET, IPT, AND P AS DIRECTED. PROVIDE ADVICE TO AGENCIES
AND DEVELOPERS IN DEVELOPMENT OF ARMOR AND ENGINEER EQUIPMENT.

...CURRENT IMPORTANT PROGRAMS
METHODOLOGY INVESTIGATION ON AUTOMATED ANTI-ARMOR TEST CAPABILITY
IMPROVE ALL ASPECTS OF MILITARY SERVICE UNDER THE MODERN VOLUNTEER ARMY
MILITARY POTENTIAL TEST OF 5 AND 10 KW GENERATORS
INITIAL PRODUCTION TESTS ON M60A2 TANK, COMBAT FULL TRACKED, 152MM GUN
MILITARY POTENTIAL TEST OF SIMFIRE HIT-KILL INDICATOR

USAARENBD MAJOR EQUIP: ADEQUATE STILL AND MOTION PICTURE PHOTO EQUIP: VIDEO TAPE RECORDER& STATIONARY ELEVATED CAMERA PLATFORM FOR HEIGHTS UP TO 40 FT ABOVE ADJACENT GRADE& GENERATOR LOAD BANKS& MOBILE DYNAMOMETER, WHICH MEASURES DRAW BAR PULL FROM 0 TO 100 TONS& OVERHEAD CRANE, 40 TON& TACTICAL WHLD VEH& COMBAT VEH& ENGR CONSTR EQUIP& MACHINE SHOP EQUIP/ SHOP MAINTENANCE SETS. THE BOARD FACILITIES CONSIST OF 6400 ACRES FOR TESTING& MCFARLAND-OLIVER (160 ACRES) WITH A FIRING CAPABILITY OF UP TO 2000 METERS& ADDITIONAL RANGE WITH FIRING UP TO 10,000 METERS ON A SPACE AVAILABLE BASIS& STILL WATER TEST AREA& BARRACKS SPACE 72,988 SQ FT& OFFICE SPACE 71,788 SQ FT& SHOP AREA 69,888 SQ FT& STORAGE 48,106 SQ FT& AND MOTOR PARK 85,750 SQ FT.

 ${\bf L}_{-}$

C.O. AND DIR. RICHARD C. CHABOT DEPUTY DIR. DR. MARVIN DIAMOND

| PROGRAM | PRO GR AM | DATA BY FISC 1972 | AL YEAR (MILLION 1973 | \$) |
|-------------------|---------------|----------------------|-----------------------|--------------|
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 9.220 | 9.646 | |
| TOTAL PROCUREMENT | | 0.000 | 0.000 | |
| TOTAL OEM | | 0.031 | 0.031 | |
| TOTAL OTHER | | 2.968 | 3.031 | |
| TOTAL ANNUAL LAB | | 12.219 | 12.708 | |
| TOTAL INHOUSE | | 11.034 | 10.720 | |
| TOTAL INHOUSE RDT | 8.6 | 8.035 | 7.658 | |
| ANNUAL OPERATING | COST | 0.000 | 0.000 | |
| | PERSONNEL DA | TA (END OF F | Y 1972) | |
| PERSONNEL AL | THURIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 483 | 1 | 40 | 443 |
| CIVILIAN | 258 | 11 | 115 | 143 |
| TOTAL | 741 | 12 | 155 | 586 |
| | SPAC | E AND PROPERT | · Y | |
| ACRES SP | ACE (THOUSAND | S OF SQUARE F | EET) COST | (MILLION \$) |
| | LAB ADM | | TOTAL REAL P | ROP EQUIP |
| 45 | 0.056 0.0 | 25 0.033 | 0-114 48- | 000 2.500 |

*** MISSION
RESEARCH IN ATMOSPHERIC SCIENCES, DEVELOPMENT OF METEOROLOGICAL TECHNIQUES AND EQUIPMENT FOR FIELD ARMY. FURNISH METEOROLOGICAL SERVICES TO ARMY ROTE ACTIVITIES. PROVIDE ADMIN AND LOGISTICAL SUPPORT TO TOHER NUPPER ATMOSPHERE RESEARCH AND SOUNDING ROCKET FACILITY AND CAPABILITY

...CURRENT IMPORTANT PROGRAMS
DETERMINATION OF ATMOSPHERIC EFFECTS ON ARMY SYSTEMS
DEVELOP ARMY ATMOSPHERIC SENSING SYSTEMS, TECHNIQUES, APPLICATIONS
RESEARCH OF MICROSCALE, MESOSCALE, AND UPPER ATMOSPHERIC PHENOMENA
FOG DISSIPATION
METEOROLOGICAL SUPPORT TO ROTE ACTIVITIES

***FUNCTIONS/EQUIPMENT/CAPABILITIES
METEOROLOGICAL RESEARCH FACILITY AND CAPABILITY
WIND TUNNEL FACILITY, LOW SPEED
ATMOSPHERIC PHYSICS RESEARCH FACILITY AND CAPABILITY
UPPER ATMOSPHERE RESEARCH AND SOUNDING ROCKET FACILITY AND CAPABILITY
ION MASS SPECTROMETER SYSTEM
METEOROLOGICAL SOUNDING ROCKET FACILITIES—N.M., UTAH, ALASKS, CANAL ZONE
REMOTE ATMOSPHERIC SENSING FIELD RESEARCH FACILITY
ATMOSPHERIC SPECTROSCOPY—LASER PROPAGATION FACILITY
METEOROLOGICAL ROTE SUPPORT FACILITIES — ALASKA TO PANAMA CNAL ZONE
METOEOROLOGICAL INSTRUMENTATION TEST, MAINTENANCE, CALIBRATION FACILITY
FACILITY FOR SONIC OBSERVATION OF TRAKECTORY AND IMPACT OF MISSILES
COLOR DENSITOMETER FOR ANALYSIS OF METEOROLOGICAL SATELLITE DATA

C.O. COL DEAN E. WRIGHT TECH. DIR. JAMES S. HAYDEN

| | | | GAL YEAR IMILLION | \$) |
|---------------|----------------|---------|-------------------|------|
| PROGRAM | | 1972 | 1973 | |
| | (AC | TUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 3-689 | 4.395 | |
| TOTAL PROCURE | MENT | 0.000 | 0.000 | |
| TOTAL OWM | | 0.000 | 0~000 | |
| TOTAL OTHER | | 0.789 | 0.340 | |
| TOTAL ANNUAL | LAB | 4.478 | 5,235 | |
| TOTAL INHOUSE | | 4.478 | 5.235 | |
| TOTAL INHOUSE | RDTGE | 3.689 | 4.395 | |
| ANNUAL OPERAT | | 1-132 | 1.040 | |
| | PERSONNEL DATA | (END OF | FY 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHD\$ | PRUF | PROF |
| MILITARY | 62 | 0 | 23 | 39 |
| CIVILIAN | 126 | 1 | 26 | 90 |
| TOTAL | 178 | 1 | 49 | 129 |
| | 65.45° A | | * | |

| ACRES | SPACE (THO | • | D PROPERTY Square fee | T) | COST (MILL | ION \$) |
|-------|------------|-------|--------------------------|-------|------------|---------|
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 19 | 0.004 | 0.033 | 0.098 | 0.135 | 1.140 | 4.165 |

...MISSION
CONDUCT AIRWORTHINESS QUALIF TESTS ON ALL ARMY ACFT & COMPONENTS ENTERGING INVENTORY OR CONSIDERED FOR SPECIFIC APPLICATION. MONITOR CONTRACTOR
FLT TESTING & PARTICIPATE IN ENG FLT TESTS CONDUCTED BY USAF, USA OR
FAA.PUBLISH TEST RESULTS.

---CURRENT IMPORTANT PROGRAMS
CH-47 IMPROVEMENT TESTS
CH-54 AIRWORTHINESS FLIGHT QUALIFICATION
INSTRUMENTATION VIBRATION SURVEYS
LOH-,OH-6,OH-58 IMPROVEMENT TESTS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
IC-47 1U-8G 10V-1C 1T28-B 2F-51D U1H-1H AND 9 TEST AIRCRAFT
1EMR COMPUTER WITH TELEMETRY
3 IARBORNE DATA ACQUISITION SYSTEMS
2 REMOTE GROUND STATIONS WITH COMPUTER AND TELEMETRY CAPABILITY
4 MAGNETIC TAPE SELECTRIC TYPEWRITERS FOR TEST REPORT PREPARATION
LIMITED INSTRUMENT CALIBRATION CAPABILITY

PRES. COL DANIEL G. GUST

| PROGRAM | PROGRAM | DATA BY FISCA | AL YEAR (MILLION 1973 | \$) |
|----------------|-----------------|----------------|-----------------------|--------------|
| PROCRAM | | (ACTUAL) | (ACT + EST) | |
| POTAL DOTCE | ' | 6.426 | 6.610 | |
| TOTAL ROTEE | | | - - | |
| TOTAL PROCUREM | =N [| 0.626 | 0.321 | |
| MAD JATUT | | 0.196 | 0.330 | |
| TOTAL OTHER | | 2.292 | 2-400 | |
| TOTAL ANNUAL L | AB | 9.540 | 9.661 | |
| TOTAL INHOUSE | | 6.935 | 7.092 | |
| TOTAL INHOUSE | ROTEE | 3.821 | 4.041 | |
| ANNUAL OPERATI | · - · | 3.247 | 3.445 | |
| | PERSONNEL DA | TA (END OF FY | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 221 | 0 | 44 | 177 |
| CIVILIAN | 139 | 0 | 4 | 135 |
| TOTAL | 360 | Ō | 48 | 312 |
| | SPAC | E AND PROPERTY | Y | |
| ACRES | SPACE (THOUSAND | | | (MILLION \$) |
| | LAB ADM | | | |
| 1234 | | 34 180.754 | | 650 13-185 |

---MISSION
PLAN, CONDUCT & REPORT ON SERVICE & CHECK TESTS OF AIRCRAFT, A/C SUBSYSTEMS & ANCILLARY EQUIP- PARTICIPATE IN ENGINEERING, PREPRODUCTION &
INITIAL PRODUCTION TESTS AS DIRECTED- ADVISE PROPONENT AGENCIES DURING
THE DEVELOPMENT OF A/C SYSTEMS-

...CURRENT IMPORTANT PROGRAMS
INFRA-RED PROJECTS
CH-47C ARCTIC TEST
OH-58 PROJECTS
XM56 MINE DISPENSER
NEW DS MAINTENANCE SHOPS CONCEPT

...FUNCTIONS/EQUIPMENT/CAPABILITIES
HAVE REQUIRED FACILITIES & CAPABILITIES TO PERFORM STATED MISSION, TO
REVIEW & COMMENT ON OMDOS, MATL NEEDS, MAINT PACKAGES & TO ASSIST IN
REVIEWING MIL SPECS. ABILITY TO EVALUATE & RECOMMEND ON SAFETY & SUITABILITY OF MATLS FOR ARMY USE, TO SUPPORT FIELD RESEARCH, STUDIES, TESTS
& OPERATIONS OF OTHER AMC SUBORDINATE ELEMENTS, DA OR DOD AGENCIES. CAN
PLAN DIRECT & CONTROL PROGRAMS IN METHODOLOGY TO AS SURE PROPER TESTING
&REPORTING IN CURRENT & FUTURE YRS. ABLE TO ASSIST IN PREPARING TRAINING LITERATURE & SELECTION OF TRAINING AIDS, TO RECCOMMEND TO CG TECOM
THROUGH ESTABLISHED PROCEDURES, R&D PROJECTS DESIGNED TO IMPROVE TECOM
TEST & EVALUATION.

C.O. LTC EVERETY RICHARDS TECH. DIR. THEODORE SUETA

| | PRO | | | L YEAR (MILLIO | IN \$) | |
|----------------|-------------|-----------|----------|----------------|---------|----------|
| PROGRAM | | 197 | - | 1973 | | |
| | | (ACTUA | L) | (ACT + EST) | | |
| TOTAL RDT&E | | 12 | •699 | 11.752 | | |
| TOTAL PROCURE | IENT | 8 | -257 | 9.151 | | |
| TOTAL DEM | | 0 | -000 | 0.000 | | |
| TOTAL OTHER | | 0 | -000 | 0.000 | | |
| TOTAL ANNUAL L | .AB | 20 | •956 | 20.903 | | |
| TOTAL INHOUSE | | 18 | .146 | 17.845 | | |
| TOTAL INHOUSE | RDT&E | 11 | .294 | 10.223 | | |
| ANNUAL OPERAT | ING COST | 5 | -014 | 5.658 | | |
| | PERSONNE | | ND OF FY | | | |
| PERSONNEL | AUTHORIZED | T | OTAL | TOTAL | | NON- |
| | STRENGTH | | PHDS | PROF | | PROF |
| MILITARY | 25 | | 1 | 14 | | 11 |
| CIVILIAN | 251 | | 5 | 160 | | 91 |
| TOTAL | 276 | | 6 | 174 | | 102 |
| | | SPACE AND | PROPERTY | • | | |
| ACRES | SPACE (THOU | | | | ST (MIL | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL REAL | L PROP | EQUIP |
| 9 | 43.500 | 7.500 | 1.706 | 52.706 | 2.605 | 14.900 |

...MISSION
APPLIED RES DEVEL AND ENGRG IN ARMY AVIATION ELECTRONICS INCLUDING
NAVIGATION LANDING COMMUNICATIONS ENVIRONMENT SENSING CONTROL THEORY
AIRCRAFT ANTENNAS INSTRUMENTATION GROUND AND AIRBORNE SYSTEMS
INSTALLATION AND TEST SYSTEMS ENGRG

...CURRENT IMPORTANT PROGRAMS
LOW LEVEL NIGHT OPERATIONS FOR ARMY AIRCRAFT
LORAN CD NAVIGATION SYSTEM
ATTENDED AREA TACTICAL LANDING SYSTEM
NATIONAL LANDING SYSTEM
AIRCRAFT SYSTEMS ENGINEERING

...FUNCTIONS/EQUIPMENT/CAPABILITIES
TACTICAL AVIONICS SYSTEMS SIMULATOR
AIRCRAFT ANTENNA TEST FACILITY
FIXED BASE COCKPIT SIMULATOR UH-1
INSTRUMENTED C-47 AIRCRAFT FOR TESTING NAVIGATION SYSTEMS
GYRO TEST FACILITY
MOVING EARTH SIMULATOR FOR DOPPLER NAVIGATOR TESTING
ELECTROMAGNETIC RADIATION TEST FACILITY

NON-PROF 13

469

482

879

954

CIVILIAN

TOTAL

C.O. COL RUDOLPH A. AXELSON DIR. ROBERT J. EICHELBERGER

| PROGRAM | PROGRAM DATA BY FISCA 1972 | 1973 |
|-----------------------|-------------------------------|-------------|
| | (ACTUAL) | (ACT + EST) |
| TOTAL ROTEE | 30.609 | 29.005 |
| TOTAL PROCUREMENT | 0.139 | 0.200 |
| TOTAL DAM | 0.120 | 0.120 |
| TOTAL OTHER | 0.000 | 0.000 |
| TOTAL ANNUAL LAB | 30.868 | 29.325 |
| TOTAL INHOUSE | 20.928 | 20.120 |
| TOTAL INHOUSE ROTEE | 20.808 | 20.000 |
| ANNUAL OPERATING COST | 5.593 | 7.837 |
| PERS | ONNEL CATA (END OF FY | (1972) |
| PERSONNEL AUTHORI | | TOYAL |
| STREN | STH PHDS | PROF |
| - - | 75 9 | 62 |

| | | SPACE AND | PROPERTY | | | |
|-------|-----------|------------|-----------|---------|------------|----------|
| ACRES | SPACE (TH | OUSANDS OF | SQUARE FE | ET) | COST (MILI | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 3380 | 277.823 | 113.784 | 0.000 | 391.607 | 15.633 | 34.429 |

85

410

472

...MISSION
CONDUCT RES AND EXPL DEVL IN SCIENCES/TECHNOLOGIES NECESSARY FOR
CONCEIVING DESIGNING DEVELOPING AND EVALUATING WEAPONS SYSTEMS
PURSUE ORIENTED FUND RESEARCH IN PHYSICS CHEN MATH ENGR AND BIOPHYSICS
INVESTIGATE PERTINENT BRANCHES OF MILITARY SCIENCE AND TECHNOLOGIES

...CURRENT IMPORTANT PROGRAMS
MATHEMATICAL MODELS OF GUN PROPELLANT SYSTEMS
CONVENTIONAL WARHEAD EFFECTS
WARHEAD DYNAMICS FRAGMENTATION-EXPLOSIVE METAL INTERACTION
REFINED FLIGHT DYNAMICS OF PROJECTILES AND MISSILES
VULNERABILITY GROUND AND AIRBORNE TARGETS-OFFENSIVE/DEFENSIVE MEASURES

***FUNCTIONS/EQUIPMENT/CAPABILITIES
SUPERSONIC AND HYPERSONIC WIND TUNNELS/TRANSONIC RANGE
EXPLOSIVE BLAST CHAMBERS AND HIGH ALTITUDE BLAST SPHERE
SHOCK TUBES-SIMULATION OF NUCLEAR BL ST/CHEMICAL REACTION RATE
PULSE RADIATION FACILITY-TANDEM VAN LE GRAFF ACCELERATOR
EXPLOSIVE FIELD TEST FACILITIES
HIGH SPEED MOTION PHOTOGRAPHY SCHLIEREN INTERFEROMETRY
ELECTRON MISCACSCOPE-ELECTRON SPIN RESONANCE-NUCLEAR MAGNETIC RESEARCH
ELECTROMAGNETIC RADIATION RANGES
ANALOG COMPUTER FOR SIMULATION OF DYNAMICS OF GUN AND RIFLE
PROPULSION AND COMBUSTION CHAMBERS
LASERS FOR PLASMA PROPAGATION AND SIGNATURES
AFTER GLOW REACTION CHAMBER-UPPER ATMOSPHERE CHEM REACTION RATE

Bridge State State

C.O. COL CHRISTOPHER MAGGIO TECH. DIR. ROBERT E. WEIGLE

| PROGRAM | PR | | A BY FISC 972 | AL YEAR (MI) 1973 | LION \$) | |
|---------------|------------|----------|------------------|----------------------|-----------|----------|
| PRUGRAH | | (ACŤ | . — | | | |
| TOTAL ROTGE | | (AU I | | (ACT + EST | - | |
| | MENT | | 9.891 | 10.2 | • | |
| TOTAL PROCURE | MENI | | 3.583 | 3.4 | | |
| TOTAL DEM | | | 1.732 | 1.0 | | |
| TOTAL OTHER | | | 0.128 | 0.0 | 58 | |
| TOTAL ANNUAL | LAB | | 15.334 | 14.7 | 76 | |
| TOTAL INHOUSE | | | 13.665 | 13.0 | 34 | |
| TOTAL INHOUSE | RDT&E | | 8.332 | 8.50 | 52 | |
| ANNUAL OPERAT | ING COST | | 3.455 | 3.6 | 75 | |
| | PERSON | EL DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZEC |) | TOTAL | TOTAL | L | NON- |
| | STRENGTH | ı | PHDS | PRO | F | PROF |
| MILITARY | 3 | | 0 | 2 | | 1 |
| CIVILIAN | 410 | | 43 | 175 | | 235 |
| TOTAL | 413 | | 43 | 177 | | 236 |
| | | SPACE AN | D PROPERT | Y | | |
| ACRES | SPACE (THO | | | | COST (MIL | LION \$) |
| - | LAB | ADMIN | OTHER | | REAL PROP | EQUIP |
| 4 | 176.776 | 24.600 | 0.000 | 201.376 | 2.266 | 3.842 |

---MISSION
DESIGN DEV ARTILLERY, TANK, AIR DEFENSE SECONDARY CANNON ABOVE 20MM.
SPARE PARTS SUCH AS BREECH MECHS, MUZZLE DEVICES, BORE EVACUATORS
SCAVENGERS AUTO LOADERS, SYS MGT, DESIGN DEV OF MORTAR REC. RIFLES
CONDUCT BASIC APPL RESEARCH MFG TECH TO SPT THE DEVELOPMENT MISSION

...CURRENT IMPORTANT PROGRAMS
DEV OF 105MM XM205 HOW FOR 105MM TOWED S.R. HOW XM204
DEV SYS MGT OF LIGHT WEIGHT COMPANY MORTAR SYSTEM
APPL-OF FRACTURE MECHS TO FATIGUE LIFE PREDICTIONS FOR CANNON TUBES
DEV OF CANNON, 155MM HOW XM199 FOR 155MM HOW XM198.DEV OF COMPOSITE
SYSTEMS WITH METAL MATRICES INORGANIC FIBERS FOR HI-TEMP APPLICATIONS

..FUNCTIONS/EQUIPMENT/CAPABILITIES UNIQUE FACILITIES CAPABILITIES INCLUDE HIGH PRESSURE METALLURGY WITH 20-30 K-BAR FLUID EXTRUSION PRESS, WHISKER GROWTH TEST, NEUTRON ANALYSIS 150TOPE COUNTING, DYNAMIC TEST OF BREECH COMPONENTS TUBE SECTIONS--FULL SIZE--BY PRESSURE/PULSE SIMULATING FIRING LOADS, EXP STRESS ANALYSIS THRU 2 3 DIMENSIONAL PHOTOELASTICITY.COMP.MTRLS ELECTRODEPOSITION--VACUUM ELECTRON-BEAM VAPOR-DEPOSITION--ENCLOSED PROOF RANGE--20MM MAX-COATER ELECTRON MICROSCOPY--2.3 ANGST.RESOLUTION 250000X MAG--CRYDGENICS (HELIUM DEWAR APP) TO TEMPS OF 4 KELVIN HI-PEPFORMANCE SHOCK TEST (1200 1500 G FOR GUN COMPONENTS, H1-TEMP VACUUM FURNALE--3000 C MAX--CRYDGENIC TIME OF FLIGAT MASS SPECTROMETER, 20000 GAUSS MAGNET FOR TEST OF HIGH TEMP SPECIMENS, ELECTROPLATING, ANDDIZING TITANEUM HARD COAT PROCESSES, ELECTRON MICROPROBE ANALYZER--B-UR IN PPM--XBM 360-44 COMPUTER

TOTAL AND A STATE OF THE STATE

NON-PROF

15

16

28

48

CIVILIAN

TOTAL

CaD. COL RUDDLPH A. AXELSON DIR. HARRY L. AMMLUNG

| | PROGRA | M DATA BY FISCA | AL YEAR (HILLION | 5) |
|--------------|-------------|-----------------|------------------|----|
| PROGRAM | . 22. | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 2.899 | 2.006 | |
| TOTAL PROCUR | EMENT | 0.186 | 0-194 | |
| MAG JATOT | _ | 0.458 | 0.155 | |
| TOTAL OTHER | | 0.003 | 0.008 | |
| TOTAL ANNUAL | LAB | 3.546 | 2.363 | |
| TOTAL INHOUS | E | 1.738 | 1.035 | |
| TOTAL INHOUS | E RDT&E | 1.471 | 0.743 | |
| ANNUAL OPERA | TING COST | 0.138 | 0.179 | |
| | PERSONNEL D | ATA (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | |
| | STRENGTH | PHDS | PROF | |
| MILITARY | 5 | 1 | 6 | |

| | | SPACE ANI | D PROPERTY | | | |
|-------|------------|-----------|------------|-------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | T) | COST (MILL | ION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 0 | 0-017 | 0.002 | 0.005 | 0-024 | 0.060 | 0-410 |

...MISSION
MANAGE & DIRECT THE ASSIGNED PORTION OF AMC MAT & FUELS & LUBES PROGRAM
INCLUDES BASIC & APPLIED RESEARCH IN AUTO CHEMICALS ORGANIC & SEMI ORGANIC COATINGS PAINT CLEANING FUELS & LUBES COORINATE THE RESEARCH
PROGRAM OF AMC IN THE FIELD OF FUELS & LUBES & RELATED MATERIALS

...CURRENT IMPORTANT PROGRAMS
DEVELOPE FULLY COORDINATED FED SPEC FOR UNLEADED AUTOMOTIVE GASOLINES
DEFINING PERFORMANCE CHARACTERISTICS OF MULTI VISCOSITY ENGINE LUBS
COATINGS TO IMPROVE PROTECTION AND OPERATIONAL RELIABILITY OF MATERIEL
FUNCTIONAL CLEANING COMPOUNDS AND PAINT REMOVERS
INCREASE THE STABILITY OF ANTIFREEZE CORROSIGN INHIBITOR

...FUNCTIONS/EQU'PMENT/CAPABILITIES
SPECTROPHOTOMETERS
AUCELERATED WEATHERING MACHINE
CORROSION TEST CABINETS
GAS CHROMATOGRAPHS
PROGRAMED HUMIDITY CHAMBERS
FUEL COKER
SUB ZERO TEST CABINET
STROKING UNIT (BRAKE FLUID)
TEMPERATURE FLOW CORROSION UNIT
SPRAY BOOTH
AUTOMATIC V/L RATIO ANALYZER
TWO GENERAL PURPOSE LABORATORY BUILDING AND EXPOSURE FARM

4.383

3.906

19.013

C.O. AND DIR. COL J.F. CASTRO TECH. DIR. DR. D.F. FREITAG

| | PROGRAM D | ATA BY FISCA | L YEAR (MILLION | \$) |
|--------------|------------------|--------------|-----------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | (A | CTUAL) | (ACT + EST) | |
| TOTAL ROTEE | _ | 5.197 | 4.897 | |
| TOTAL PROCUR | EMENT | 0.005 | 0.000 | |
| MAG JATOT | | 0.170 | 0.200 | |
| TOTAL OTHER | | 2.063 | 2.700 | |
| • | 1 A C | 7.435 | 7.797 | |
| TOTAL ANNUAL | LAD | 1.433 | 10171 | |
| TOTAL INHOUS | E | 6.198 | 6.440 | |
| TOTAL INHOUS | _ | 4.322 | 3.720 | |
| | - | | | |
| ANNUAL OPERA | IIING CUST | 1.450 | 1.600 | |
| | PERSONNEL DATA | (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 41 | 2 | 36 | 5 |
| | | _ | | - |
| CIVILIAN | 248 | 22 | 84 | 164 |
| TOTAL | 289 | 24 | 120 | 169 |
| | SDACE | AND PROPERTY | , | |
| ACRES | SPACE (THOUSANDS | • | | (MILLION \$) |
| MUNES | | | · - · · | · |
| | LAB ADMIN | OTHER | TOTAL REAL | PROP EQUIP |

...MISSION

631

AS THE ARMY LABORATORY FOR SCIENCE AND TECHNOLOGY IN COLD REGIONS. USACRREL CONDUCTS AND COORDINATES RESEARCH AND SURVEILLANCE OF TECHNOLOGY APPLICABLE TO THE ARMYS NEEDS IN THOSE GEOGRAPHIC AREAS OF THE WORLD WHERE COLD PRESENTS A SEVERE PROBLEM AT LEAST ONE YEAR IN TEN.

108-415

137.276

...CURRENT IMPORTANT PROGRAMS
ENGINEERING IN COLD ENVIRONMENTS
ENVIRONMENTAL QUALITY FOR COLD REGIONS - MILITARY CONSTRUCTION
RESEARCH IN MILITARY ENGINEERING AND CONSTRUCTION
COLD REGIONS RESEARCH
MOBILITY AND ENVIRONMENTAL RESEARCH

9.848

THE MAIN LABORATORY AT USACRREL CONTAINS 24 COLD LABS & WHICH CAN BE OPERATED TO -580&, SPECIAL TESTING APPARATUS FOR FROZEN MATERIALS, A CHEMICAL LAB, AN ELECTRON MICROSCOPE LAB, A ROCK MECHANICS LAB, A SOILS PROCESSING LAB, AND A SPRAY IRRIGATION TEST FACILITY. FIELD WORK SUPPORT IN ALASKA IS PROVIDED BY A FIELD STATION AT FAIRBANKS. REPRESENTATIVE AREAS OF COMPETENCE AMONG USACRRELS SCIENTISTS AND ENGINEERS INCLUDE BIOLOGY, BIOCHEMISTRY, METEOROLOGY, CHEMICAL ENGINEERING, CIVIL ENGINEERING, MARINE ENGINEERING, MECHANICAL ENGINEERING, GEOLOGY, SANITARY ENGINEERING, ELECTRONICS, ELECTRICAL ENGINEERING, PHYSICS, CHEMISTRY, HYDROLOGY, AND GEOPHYSICS.

INSTALLATION COMBAT SURVEILLANCE & TGT ACQUISITION LABS FT. MONHOUTH, N.J.

DEPUTY DIR. HERBERT GOLDWAG

| | PROGRAM | 4 DATA BY FISCA | AL YEAR (MILLION | \$) |
|----------------|----------------|-----------------|------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 33.000 | 32.100 | |
| TOTAL PROCUREM | ENT | 0.000 | 0.000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.000 | 0.000 | |
| TOTAL ANNUAL L | AB | 33.000 | 32.100 | |
| TOTAL INHOUSE | | 13.500 | 13.200 | |
| TOTAL INHOUSE | RDT&E | 13.500 | 13.200 | |
| ANNUAL OPERATI | NG COST | 1.300 | 1-400 | |
| | PERSONNEL DA | ATA (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 38 | 1 | 23 | 15 |
| CIVILIAN | 312 | 6 7 | 172 | 140 |
| TOTAL | 350 | 7 | 195 | 155 |
| | SPA | CE AND PROPERT | Y | |
| ACRES | SPACE (THOUSAN | DS OF SQUARE FI | EET) COST | (MILLION \$) |
| | LAB ADI | MIN OTHER | TOTAL REAL P | ROP EQUIP |
| 71 | 103.535 7. | 281 26.133 | 136.949 2. | 418 23.000 |

...MISSION

DO RED OF EQUIPMENTS FOR COMBAT SURVEILLANCE, TARGET ACQUISITION, IDEN-TIFICATION-FRIEND-OR-FOE, RADIOLOGICAL SURVEY. APPLY FOLLOWING TECHNOLO-GIES RADAR, I-R, LIGHT, SOUND, SEISMICS, NUCLEONICS, ELECTRO-OPTICS, PHOTOGRAPHY, GEOPHYSICS, IMAGE INTERPRETATION, DATA TRANSFER AND DRONES

... CURRENT IMPORTANT PROGRAMS ADV DEV AND SUPPORTING TECHNOLOGY FOR ARTILLERY LOCATING RADAR AN/MPQ-() ENGR DEV OF MOBILE, HELI-LIFTED, MORTAR-LOCATING RADAR AN/TPQ-36 ENGR DEV OF MOVING-TARGET LOCATING RADAR SET AN/TPS-58 ENGR DEV OF LASER DESIGNATOR TRACKER SYSTEM (LDTS) REMOTELY MONITORED BATTLEFIELD SENSOR SYSTEM (REMBASS)

... FUNCT IONS / EQUIPMENT/CAPABILITIES PHOTO PROJESSING, OPTICAL TEST, LENS RESOLUTION TEST PATTERN FACILITIES (FAC)& INCL DARK ROUMS, CHEM LABS. RADAR TECHNIQUES DEV FAC& INCL MI-CROWAVE DARK ROOM, ANTENNA PATTERN & TEST RANGE, 65FT HIGH RADAR TEST PLATFORM& FIVE OUTDOOR & ONE INDOOR RANGES INSTRUMENTED FROM 30 MC TO 70 GS PER SEC. MOBILE SPECTRAL AND TIME-DISTRIBUTION MEASUREMENT FAC GOOD FROM 2900 A TO INTERMEDIATE IR. OPTICS FACILITY FOR MEASURING DETECTIV-ITY OF ELEMENTS, OUTPUT OF SOURCES, TRANSMISSION CHARACTERISTICS. LASER TEST & MEASUREMENT FAC FOR LASER SYSTEM COMPOMENTS. RADAR INSTRUMENTA-TION FAC CAPABLE OF TRACKING X-BAND RADAR AND COLLECTING AND RECORDING POSITION, VELUCITY, AND SIGNAL STRENGTHE HAS S-BAND SHORT-RANGE SEARCH CAPABILITY

C.O. AND DIR. COL J. MITCHELL

| | PROGR/ | AM DATA BY F | ISCAL YEAR (M | (LLION \$) | |
|----------------|---------------|--------------|---------------|------------|-----------|
| PROGRAM | | 1972 | 1973 | | |
| | | (ACTUAL) | (ACT + ES | r 3 | |
| TOTAL ROTEE | | 31.400 | 21 | 500 | |
| TOTAL PROCUREM | ENT | 0.000 | 0. | 000 | |
| TOTAL D&M | | 0.000 | 0. | 000 | |
| TOTAL OTHER | | 0.300 | 0. | 330 | |
| TOTAL ANNUAL L | .AB | 31.700 | 21. | 930 | |
| TOTAL INHOUSE | | 14-100 | 11. | 230 | |
| TOTAL INHOUSE | RDT&E | 13.800 | 10. | 900 | |
| ANNUAL OPERATI | NG COST | 0.000 | 0. | 000 | |
| | PERSONNEL I | DATA (END C | F FY 1972) | | |
| PERSONNEL | AUTHORIZED | TOTAL | TOT | AL | NON- |
| | STRENGTH | PHDS | PR |)F | PROF |
| MILITARY | 23 | (| | 2 | 11 |
| CIVILIAN | 420 | ę | 25 | 5 | 165 |
| TOTAL | 443 | ć | 26 | r | 176 |
| | SP/ | ACE AND PROP | PERTY | | |
| ACRES | SPACE (THOUSA | NDS OF SQUAR | E FEET) | COST (MI | LLION \$3 |
| | | DMIN OTH | | PEAL PROP | EQUIP |
| 12 | 75.305 7. | 389 1.0 | 115 83,709 | 0.000 | 6-987 |

---MISSION
TO PERFORM R&D ACTIVITIES RELATED COMMUNICATIONS & ADP EQUIPMENT AND SYSTEMS WHICH INCLUDE THE FIELDS OF RADIO TELEPHONIC TELEGRAPHIC AND FACSIMILE COMMUNICATIONS ADP TECHNIQUES & DATA STORAGE COMMUNICATION SECURITY ELECTROMAGNETIC COMPATIBILITY & COMMUNICATING PROCESSES

•••CURRENT IMPORTANT PROGRAMS
TACTICAL RADIO COMMUNICATIONS SYSTEM
RADIO SET AN ARC 70
AACOMS TSQ 85 TYC38 ANUGC72 73 74 75 76 TD10651G TD1069

LAB SPACES TEST INSTRUMENTS & SPECIALIZED ELECTRONIC MECHANICAL AND OPTICAL EQUIPMENT TO PERFORM DESIGN FABRICATION & TESTING OF ELECTRONIC CIRCUITS COMPONENTS EQUIPMENTS IN DISPLAY PRINTING SPEECH NARROW AND WIDE BAND RADIOS FROM LOW TO LIGHT FREQUENCY RANGE CONVENTIONAL AND AD VANCED MULTIPLEXING SWITCHING ERROR DETECTION & CODING ANTENNA AND PROPAGATION TECHNOLOGIES SMALL SCALE COMPUTERS TO TEST & EVALUATE AD VANCED COMPUTER CONCEPTS & SUBSYSTEM SOFTWARE & HARDWARE FIXED & MOBILE TACTICAL RADIO MODEM MULTIPLEXING SWITCHING EQUIPMENTS TO SIMULATE FIELD CONFIGURATIONS FOR TEST DATA COLLECTION & EVALUATION OF EXISTING EQUIPMENT PROPAGATION INTERFACE PROBLEMS ANTENNA TEST FACILITY &SHIELDED ROOMS FOR MEASURING OF & ESTABLISHING DOD STANDARDS FOR ELECTROMAGNETIC COMPATIBILITY RADIATION & PROPAGATION

INSTALLATION CONSTRUCTION ENGINEERING RESEARCH LABORATORY URBANA, IL-

DIR. R.W. REISACHER DEPUTY DIR. R.L. SHAFFER

DISSENINATE THE RESEARCH RESULTS

| DECCAM | PROGRAM D | ATA BY FISC 1972 | AL YEAR (MILLION \$) | |
|---------------|------------------|---------------------|----------------------|-------------|
| PROGRAM | | CTUAL) | (ACT + EST) | |
| TOTAL ROTEE | • | 5.873 | 5.960 | |
| TOTAL PROCUR | EMENT | 0.000 | 0.000 | |
| TOTAL OEM | | 0.531 | 0.315 | |
| TOTAL OTHER | | 0.000 | 0.000 | |
| TOTAL ANNUAL | LAB | 6.404 | ú . 275 | |
| TOTAL INHOUS | E | 5.069 | 3.977 | |
| TOTAL INHOUSE | E RDT&E | 4.701 | 3.712 | |
| ANNUAL OPERA | TING COST | 1.676 | 1.757 | |
| | PERSONNEL DATA | (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHOS | PROF | PR ()F |
| MILITARY | 3 | 0 | 4 | 1 |
| CIVILIAN | 168 | 33 | 94 | 74 |
| TOTAL | 171 | 33 | 98 | 75 |
| | SPACE | AND PROPERT | | |
| ACRES | SPACE (THOUSANDS | OF SQUARE F | FEET) COST (| MILLION \$) |
| | LAB ADMIN | N OTHER | TOTAL REAL PRO | OP EQUIP |

15 68.875 32.075 0.000 100.950 3.481 1.961
...MISSION
PLAN, EXECUTE AND EVALUATE RESEARCH TG UBTAIN THE BEST COMBINATION OF ENGINEERING, DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE TO PROVIDE

FACILITIES FOR THE MILITARY ESTABLISHMENT AND OTHER AGENCIES AND TO

...CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF MATERIALS FOR PERMANENT MILITARY CONSTRUCTION
ENVIRONMENTAL QUALITY FOR MILITARY CONSTRUCTION AND FACILITIES OPERATION
INDUSTRIALIZED BUILDINGS FOR MILITARY CONSTRUCTION APPLICATIONS
DEVELOPMENT OF IMPROVED DESIGN, CONSTRUCTION AND MANAGEMENT TECHNIQUES
EVALUATION OF ELECTROMECHANICAL SYSTEMS FOR MILITARY FACILITIES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONTROLLED ENVIRONMENT CHAMBER, 1-MILLION POUND CLOSED-LOOP MATERIALS
TEST SYSTEM, SCANNING ELECTRON MICROSCOPE, 10MW RESISTANCE LOAD BANK AND
INSTRUMENTATION, X-RAY EQUIPMENT, SEMI-AUTOMATIC WELDING EQUIPMENT,
BIAXIAL SHOCK TEST MACHINE, NON-DESTRUTIVE TESTING FACILITY, VACUUM
INDUCTION FURNACES, METALLOGRAPHIC SAMPLE PREPARATION AND RESEARCH
METALLOGRAPH X-RAY DIFFRACTION AND VACUUM SPECTROSCOPY SYSTEM, DYNAMIC
TENSION ANALYSIS SYSTEM, DIGITAL RECORDING AND ANALYSIS EQUIPMENT
FACILITIES CAPABILITIES INCLUDE SYSTEMS BUILDING METHODS AND TECHNIQUES,
COMPUTER BASED DESIGN AND CONSTRUCTION MANAGEMENT TECHNIQUES, HARDENED
FACILITIES ANALYSIS ENVIRONMENTAL QUALITY MANAGEMENT, POLLUTION CONTRO!
AND ABATEMENT, MILITARY HOUSING SYSTEMS, POWER GENERATION SYSTEMS, AND
UTILITIES SYSTEMS ANALYSIS AND EVALUATION

C.O. COL ROBERT A. SHADE SCIENTIFIC DIR. M. A. ROTHENBERG

| | PROGRAM D | | CAL YEAR (MILLION | \$3 |
|---------------|------------------|------------|-------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | (A | CTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 13.491 | 10.788 | |
| TOTAL PROCURI | EM EN T | 0.493 | 0.300 | |
| TOTAL OEM | | 0.393 | 0.395 | |
| TOTAL OTHER | | 1.430 | 1.320 | |
| TOTAL ANNUAL | LAB | 15.807 | 12.801 | |
| TOTAL INHOUSE | | 14.617 | 11.806 | |
| TOTAL INHOUS | | 12.666 | 10.111 | |
| ANNUAL OPERA | | 6.783 | 6.193 | |
| | PERSONNEL DATA | (END OF | FY 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 355 | 8 | 117 | 238 |
| CIVILIAN | 887 | 15 | 130 | 757 |
| TOTAL | 1242 | 23 | 247 | 995 |
| | SPACE | AND PROPER | TY | |
| ACDEC | CDACE ETHOUGHING | | | AMELLICAL AL |

ACRES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

840910 85.891 130.051 1743.102 1959.044 49.608 21.856

DTC PLANS & CONDUCTS APPROVED TESTS TO ASSESS THE MILITARY VALUE OF CML WEAPONS & CML-BIO DEF SYS. TESTS SPT R & D & PROVIDE A BASIS FOR DEVEL-OPMENT OF NEW OPERATIONAL & LOGISTICAL CONCEPTS FOR EMPLOYMENT OF TESTD SYS. TESTS ARE RESPONSIVE TO USER REQUIREMENTS.

...CURRENT IMPORTANT PROGRAMS
ANALYSIS OF FIELD TEST SAMPLES G.ENGINEERING TESTIN
DEVELOP OF ANALYTICAL PRO, AEROSOL SAMPL, CML & BIO SIMULANT AGENTS.
DETERMINATION OF THE FATE, PERSISTANCE & METABOLISM OF CML AGENTS.
ECOLOGICAL EPIDEMIOLOGICAL & TOXICOLOGICAL SURVL OF THE UPG PERIMETER.
DEVELOP OF NEW TECHNO FOR TEST PROP OF SIMULANT BIO AGT CLOUDS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MODERN CML ANALYTICAL, MICRO-ANALYTICAL & RSCH LABORATORY FOR MASS
ASSAY & SPECIAL STUDIES WITH 7 GAS CHROMATOGRAPHS, MASS INFRA-RED,
NUCLEAR MAGNETIC RESONANCE, ULTRA-VIOLET, VISIBLE, ATOMIC ABSORBTION,
FLUORESCENCE SPECTORMETRIC EQUIP, 3 RJBOT CHEMIST ANALYZERS, AUTOMATIC
SPOT SIZER/COUNTER & BACTERIAL COLONY COUNTER, FMALE PHOTOMETRIC DETECTORS, RADIO ISOTYPE EQUIP, SCIENTIFIC GALSS BLOWING SHOP, AEROSOL &
ENVIRONMENTAL CHAMBERS, AIRBORNE PARTICLE SIZING & LIGHT-SCATTERING
PHOTOMETERS, LOW-HIGH SPEED & ULTRA CENTRIFUGES FOR PREP & ANALYSIS,
ELECTRON MICROSCORE, MICROBIAL FERMENTATION CAPABILITY EUNDER IMPLEMENTATIONN. MICRO-BIOLOGICAL, IMMUNOLOGICAL, EPIDEMIOLOGICAL & ECOLOGICAL
LABORATORY FOR FIELD WORK & RESEARCH. FACILITIES FOR LARGE, SMALL AND
WILD TEST ANIMALS.

5

C.D. COL JOHN K. STONER TECH. DIR. DR. B.L. HARRIS

| | PRO | GRAM DATA | BY FISCA | L YEAR (MIL | LION \$} | |
|-----------------|-------------------|-----------|-----------|-------------|-----------|----------|
| P: DGRAM | | 197 | 12 | 1973 | | |
| | | (ACTUA | iL) | (ACT + EST) | | |
| TOTAL RDT&E | | 33 | 3-205 | 25.04 | 4 | |
| TOTAL PROCUREME | NT | (| 0.000 | 0.00 | 0 | |
| TOTAL DEM | | 3 | 3.915 | 3.70 | 0 | |
| TOTAL OTHER | | 3 | 1.960 | 1.96 | 0 | |
| TOTAL ANNUAL LA | NB. | 39 | 9.080 | 30.70 | 4 | |
| TOTAL INHOUSE | | 3(| 5.760 | 28.56 | 0 | |
| TOTAL INHOUSE R | BATOR | 30 | .885 | 23.00 | 0 | |
| ANNUAL OPERATIO | G COST | 14 | 4.602 | 14.63 | 8 | |
| | PERSONNI | EL DATA (| END OF FY | 1972) | | |
| PERSONNEL | AUTHORIZED | 7 | OTAL | TOTAL | | NON- |
| | STR ENGT H | | PHDS | PROF | | PROF |
| MILITARY | 196 | | 61 | 146 | | 50 |
| CIVILIAN | 1123 | | 65 | 557 | | 566 |
| TOTAL | 1319 | | 126 | 703 | | 616 |
| | | SPACE AND | PROPERTY | | | |
| ACRES | SPACE (THO | JSANDS OF | SQUARE FE | ET) | COST (MIL | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL R | EAL PROP | EQUIP |
| 4055 | 496.713 | 97.329 | 148.154 | 742.196 | 16.899 | 8.900 |

...MISSION
CLASS II ACTIVITY CONDUCTING A RESEARCH AND DEVELOPMENT MISSION FOR
ARMY CHEMICAL MUNITIONS AND DEFENSIVE ITEMS. INCLUDES BASIC RESEARCH
AND GENERAL INVESTIGATIONS AS WELL AS EXPLORATORY, ADVANCED AND
ENGINEERING DEVELOPMENT OF MATERIAL.

...CURRENT IMPORTANT PROGRAMS
PROPHYLAXIS AGAINST AND TREATMENT OF CHEMICAL AGENT CASUALTIES
CHEMICAL AGENT ALARM TECHNIQUES
PHYSICAL PROTECTION AGAINST CHEMICAL ATTACK
BINARY LETHAL CHEMICAL AGENT PROJECTILE DEVELOPMENT
DEVELOPMENT OF MODULAR COLLECTIVE PROTECTION EQUIPMENT

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCT DOD RSCH OF ANTIPERS CML AGTS & ON VEGEVATION CONTROL AGENTS /
TOXICOLOGY-PHYSIOLOGY & PHARM OF CML COMPOUNDS & ANTIPERS-ANTIMAT FLAME
INCEND AGTS / DA RSCH OF DEFENSE AGAINST CML ATTACK & DISSEM-DISPERISON
OF CML MUNITIONS / AERODYNAMICS RSCH / INVEST SIMULANTS & TRNG AGENTS /
DEV CML AGT PROCESS-TEST & ASSESS TECHNOLOGY / DEV CIVIL DISTRUB-RIOT
CONTROL SYS / INTELLIGENCE EXPLOITATION / DEV PROT EQUIP & WNG-DETECT
MAT FOR DEF AGAINST CML ATTACK & DEV CML AGENT MUNITIONS SYSTEMS.
MAJOR EQUIP IS CONTAINED IN A COMPLEX OF ENGR & LAB AREAS & INCLUDES
CML PILOT PLTS-MUN FILLING-ENGR DESIGN & EXP FAB SHOPS& AEROSOL DISSEM
TEST CHAMBERS&PYROTECH MIXING-LOADING & HANDLING FAC&INDOOR BALLISTIC
RANGE&SUBSONIC-SUPERSONIC & TRANSONIC WIND TUNNELS& A COMPLETE CLINICAL
RESEARCH FACILITY & AN ANIMAL BREEDING & HOLDING FACILITY.

C.O. COL WALLACE D. ENDERLE CH. SCI./TECH. DIR. DR. GEORGE E. SCHAFER

| | | PR | OGRAM DAT | A BY FISC | AL YEAR (MI | LLION \$) | |
|--------|--------------|-----------|--------------|-----------|-------------|-----------|----------|
| PROGRA | M | - | | 972 | 1973 | | |
| | | | (ACT | UAL) | (ACT + EST | ') | |
| TOTAL | RDT&E | | | 9.175 | 8.0 | 35 | |
| TOTAL | PROCUR EMENT | T | | 2.269 | 1.8 | 60 | |
| TOTAL | M30 | | | 0.152 | 0.1 | 66 | |
| TOTAL | OTHER | | | 3.133 | 3.3 | 99 | |
| TOTAL | ANNUAL LAB | | | 14.729 | 13.4 | ·60 | |
| TOTAL | INHOUSE | | | 9.685 | 11.2 | 15 | |
| TOTAL | INHOUSE RD | T&E | | 4.640 | 6.1 | .80 | |
| ANNUAL | DPERATING | COST | | 2.048 | 1.9 | 00 | |
| | | PERSONN | IEL DATA | (END OF F | Y 1972) | | |
| PERSON | INEL A | UTHORIZED |) | TOTAL | TOTA | \L | NON- |
| | | STRENGTH | 1 | PHDS | PRO |)F | PROF |
| MILITA | \RY | 358 | | 0 | 96 | 1 | 262 |
| CIVILI | AN | 227 | | 2 | 101 | • | 126 |
| TOTAL | | 585 | | 2 | 197 | • | 388 |
| | | | SPACE AN | D PROPERT | · Y | | |
| ACRE | s s | PACE (THO | USANDS OF | • | • | COST (MIL | LION \$3 |
| | • | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 1943 | 31 | 0.000 | 187.580 | 0.000 | 187-580 | 3.320 | 27.876 |

-..MISSION
PLAN, CONDUCT, AND REPORT ON ENGR TESTS, CHECK TESTS, INITIAL PRODUCTION
TESTS, APPROP PREPRODUCTION TESTS, ASSIGNED SERVICE TESTS, AND SENSOR
TESTS.SERVICE TESTS PERTAIN TO COMM-ELECTRONICS EQUP AND SYSTEMS ABOVE
DIVISION LEVEL.

-..CURRENT IMPORTANT PROGRAMS
METHODS OF MEASURING REFRACTIVITY ERROR
AUTOMATIC FEST EQUIPMENT FOR COMMUNICATIONS ELECTRONICS
INFRARED SYSTEM SENSITIVITY STUDY FOR 1972-80
INFRARED OPTICAL EVALUATION DATA CONTROL SYSTEM
INFRARED OPTICAL PROPAGATION STUDY

...FUNCTIONS/EQUIPMENT/CAPABILITIES
OPERATES THE USA ELECTRONIC PROVING GROUND TO INCLUDE AN ELECTROMAGNETIC
ENVIRONMENTAL TEST FACILITY, AN ELECTRONIC COUNTERMEASURES VULNERABILITY
TEST FACILITY AND A SYSTEM TEST FACILITY. PROVIDE ADVICE TO PROPONENT
AGENCIES AND MATERIEL DEVELOPERS DURING DEVELOPMENT OF MATERIEL-CONDUCT
OTHER TESTS AND EVALUATIONS AS DIRECTED BY THE CGTECOM

C.O. AND DIR. COL JAS D. DONNELLY DEPUTY DIR. C.K. SHULTES

| | PROGRAM (| | AL YEAR (MILLION | \$) |
|----------------|------------------|----------------|------------------|-------------|
| PROGRAM | | 1972 | 1973 | |
| | (/ | ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 32-228 | 33.881 | |
| TOTAL PROCUREM | ENT | 0.000 | 0.000 | |
| TOTAL DEM | | 0.332 | 0.345 | |
| TOTAL OTHER | | 0.000 | 0.000 | |
| TOTAL ANNUAL L | AB | 32.500 | 34.226 | |
| TOTAL INHOUSE | | 15.312 | 14.217 | |
| TOTAL INHOUSE | RDT&E | 14.980 | 13.872 | |
| ANNUAL OPERATI | NG COST | 3 . 748 | 3.770 | |
| | PERSONNEL DATA | A COND OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | YOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 63 | 0 | 40 | 23 |
| CIVILIAN | 384 | 4 | 191 | 193 |
| TOTAL | 447 | 4 | 231 | 216 |
| | SPACE | AND PROPERT | ſY | |
| ACRES | SPACE (THOUSANDS | | | (MILLION S) |
| · | LAB ADMII | | TOTAL REAL | |
| 0 | 61.311 40.86 | | 113.029 2 | .525 13.880 |

...MISSION
ECOM R&D ESSENTIAL TO ELECTRONIC WARFARE & SELECTED AREAS OF INTELL.
ENCOMPASSES APPLD R&D (INCL QRC DEV)&SPT IN INTERCEPT, DF, SIG ANALY,
JAMMING, DECEPT, SIG INTELL, ACOUST INTELL, AGENT EQUIP, SECURITY, CNTR INTEL,
VULNERABILITY AND COUNTER COUNTERMEASURES.

...CURRENT IMPORTANT PROGRAMS
PROTECTION OF ARMY AIRCRAFT
ASA EW/SIGINT PROGRAM-ARDF
MISSILE ELECTRONIC WARFARE
PROTECTION OF COMBAT VEHICLES
QRC READINESS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ECM EQUIP & DEVICES R&D FACILITY, MISSILE EW, DF TEST FACILITY, MAJOR EQUIP
VT FUZE SIMULATOR, LASERS, RTMS, ABN ECM LABS, IR TEST RANGE, ECM TEST RANGE,
ANECHOIC CHAMBER, ANTENNA PATTERN RANGE, 20MHZ-40GHZ, CAPABILITIES CONCEIVE,
DESIGN, DEVELOP ECM AGAINST C-E EQUIP. CONCEIVE, DESIGN, DEVELOP NEW EW SYS
FOR SIGINT, ELINT, COMINT, QRC APPLICATIONS. MEASURE VUL TO ECM OF ARMY
GUIDED MISSILES. PROVIDE LINEAR, SQUARE ROOT, LOG ANTENNA PATTERN
PRESENTATIONS.

DIR. DR. HANS K. ZIEGLER

| | PROGRAM | DATA BY | FISCAL YE | AR (MILLION | \$} |
|----------------------|------------|-----------|-----------|-------------|--------------|
| PROGRAM | | 1972 | | 1973 | |
| | (| (ACTUAL) | (ACT | + EST) | |
| TOTAL ROTGE | | 21.9 | 53 | 11.876 | |
| TOTAL PROCUREMENT | | 0-00 | 0 | 0.000 | |
| TOTAL DEM | | 0.00 | 0 | 0.000 | |
| TOTAL OTHER | | 0.13 | 19 | 0.058 | |
| TOTAL ANNUAL LAB | | 22.09 | 92 | 11.934 | |
| TOTAL INHOUSE | | 12.39 | 93 | 7.172 | |
| TOTAL INHOUSE ROTEE | | 12.29 | 54 | 7.114 | |
| ANNUAL OPERATING COS | T | 2.21 | 1.8 | 1.983 | |
| PE | RSONNEL DA | TA (END | OF FY 197 | 2) | |
| PERSONNEL AUTHO | RIZED | TOT | NL | TOTAL | NON- |
| STR | ENGTH | PHO | S | PROF | PROF |
| MILITARY | 13 | | 1 | 5 | 8 |
| CIVILIAN | 475 | | 55 | 302 | 173 |
| TOTAL | 488 | ! | 56 | 307 | 181 |
| | SP AC | E AND PRO | PERTY | | |
| ACRES SPACE | (THOUSAND | S OF SQU | ARE FEET! | COST | (MILLION \$) |
| Ĺ | AB ADM | IN O | THER T | OTAL REAL | PROP EQUIP |
| 279 142. | 900 8.1 | 00 0 | 000 15 | 1.000 5 | .832 12.482 |

PLANS AND CONDUCTS EXPLORATORY R AND D OF ELECTRONIC MATERIALS, PARTS AND DEVICES ASSEMBLIES AND RELATED DISCIPLINES AND TECHNIQUES APPLICABLE TO EQUIPMENTS AND SYSTEMS. CONDUCTS RESEARCH IN THE PREPARATION, COMPOSITION, STRUCTURE AND PROPERTIES OF ELECTRONIC MATERIALS AND RELATED PHENOMENA.

...CURRENT IMPORTANT PROGRAMS
RESEARCH IN ELECTRONICS, PHYSICS, CHEMISTRY, MATHEMATICS, & NUCLEAR PHYSICS
EXPLORATORY DEVELOPMENT OF FLECTRONIC DEVICES, MATERIALS, TECHNIQUES AND
ASSEMBLIES.R AND D OF BATTERIES, CHARGERS, POWER CONDITIONING, THERMAL ENER
GY AND FUEL CELLS.R AND D OF GENERAL PURPOSE TEST EQUIPMENT FOR ELECTRON
IC SYSTEMS.

FACILITIES ARE AVAILABLE FOR PERFORMING EXPLORATORY RESEARCH IN PHYSICS AND CHEMISTRY OF MATERIALS AND FOR CONDUCTING R AND D ON ELECTRONIC PART S DEVICES, INTEGRATED CIRCUITS AND ASSEMBLIES. LABORATORIES FOR PERFORMING R AND D IN THESE AREAS ARE EQUIPPED WITH THE NORMAL COMPLEMENT OF STOLAB INSTRUMENTATION AND FACILITIES. WORK AREAS INCLUDE FACILITIES FOR THE COMPLETE FABRICATION AND TESTING OF INTEGRATED CIRCUITS AND ASSEMBLIES SEMICONDUCTOR DEVICES, ELECTRON TUBES, DISPLAY, STORAGE AND PICKUP DEVICES. ALSO FOR R AND D IN ALL TYPES OF PRIMARY, SECONDARY AND SPECIAL PURPOSE POWER SOURCES, ELECTRONIC MATERIAL CHARACTERIZATION. FACILITIES ARE AVAILABLE FOR STUDYING THE EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC MATL®S. WORLD WIDE TRACKING STATIONS ARE AVAILABLE FOR STUDYING EFFECTS OF SOLAR RADIATION AND IONOSPHERIC PHENOMENA ON ELECTROMAGNETIC PROPAGATION

C.O. COL JOHN E. WAGNER TECH. DIR. GILBERT G. LORENZ

| | PROGR A | | AL YEAR (MILLION | \$) |
|----------------|----------------|-----------------|------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 13.256 | 10.759 | |
| TOTAL PROCURE | MENT | 0.000 | 9-000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.155 | 0.262 | |
| TOTAL ANNUAL | I AR | 13.411 | 11.021 | |
| TOTAL MINORE | LAU | 130411 | 11.021 | |
| TOTAL INHOUSE | | 5.800 | 6.968 | |
| TOTAL INHOUSE | ROTEF | 5.645 | 6.706 | |
| ANNUAL OPERAT | | 0.551 | 0.560 | |
| AMMORE OF CHAI | 1110 0001 | 0.551 | 0.500 | |
| | PERSONNEL D | ATA (END OF F | Y 19721 | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 25 | 71103 | 12 | |
| | - - | , , | | 13 |
| CIVILIAN | 265 | 21 | 169 | 96 |
| TOTAL | 290 | 22 | 181 | 109 |
| | | | | |
| | | CE AND PROPERT | | |
| ACRES | SPACE (THOUSAN | IDS OF SQUARE F | EET) COST | (MILLION \$) |
| | LAB AD | MIN OTHER | TOTAL REAL ! | PROP EQUIP |
| O | 55-899 10- | 828 3.700 | | -000 11-477 |

...MISSION

ACCOMPLISHES RESEARCH AND DEVELOPMENT OF SYSTEMS, EQUIPMENT, PROCEDURES AND TECHNIQUES APPLICABLE TO MAPPING, SURVEYING, GEODESY, PHOTO INTER-PRETATION AND ANALYSIS OF ENVIRONMENTAL DATA RELEVANT TO MILITARY OPERATIONS AND MATERIEL DEVELOPMENT.

---CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF SEMI-AUTOMATIC CARTOGRAPHIC SYSTEM
DEVELOPMENT OF AN ALL-WEATHER RADAR MAPPING SYSTEM
DEVELOPMENT OF MILITARY GEOGRAPHIC INTELLIGENCE CONCEPTS AND SYSTEMS
DEVELOPMENT OF A LONG-RANGE POSITION DETERMINING SYSTEM
DEVELOPMENT OF A POSITION AND AZIMUTH DETERMINING SYSTEM

FUNCTIONS/EQUIPMENT/CAPABILITIES
FACILITIES INCLUDE AN EXPERIMENTAL CARTOGRAPHIC LABORATORY TO STUDY THE PROBLEMS ASSOCIATED WITH HANDLING DIGITAL CARTOGRAPHIC DATA, A PHOTOGRAPHIC PROCESSING LABORATORY TO SUPPORT INVESTIGATIONS OF COLOR PHOTOGRAPHY, A MENSURATION LABORATORY FOR PRECISE MEASUREMENT OF IMAGE COORDINATES REQUIRED IN ANALYSIS OF DATA REDUCTION SYSTEMS, A LASER ROOM WITH FOUR LASERS AND AN AIR SUPPORTED TABLE FOR HOLOGRAPHIC INVESTIGATIONS, AN ELECTRONICS LABORATORY THAT CAN ANALYZE CIRCUITS FROM DC TO 40 GHZ, AND A CHEMISTRY LABORATORY TO SUPPORT ANALYSIS OF THE IMAGE REPRODUCTION PROCESS. COMPUTATIONAL CAPABILITIES INCLUDE A FULL DUPLEX INPUT TO THE NATIONAL BUREAU OF STANDARDS UNIVAC 1108 WITH A PLANNED CHANGE OVER IN 1973 TO THE CDC 6600 AT FORT BELVOIR, VIRGINIA.

DIR. COL ERNEST D. PEIXOTTO TECH. DIR. F.R. BROWN

| | PROGRAM D | ATA BY FISCA | L YEAR (MILLION S. |) |
|------------------|------------------|--------------|--------------------|-------------|
| PROGRAM | | 1972 | 1973 | |
| | (A | CTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 14.451 | 14.650 | |
| TOTAL PROCUREM | ENT | 0.000 | 0.000 | |
| TOTAL DEM | | 0.399 | 0.470 | |
| TOTAL OTHER | | 10.084 | 16.707 | |
| TOTAL ANNUAL LA | AB | 24.934 | 31.827 | |
| TOTAL INHOUSE | | 22.073 | 26.070 | |
| TOTAL INHOUSE | RDT&E | 12.469 | 11.771 | |
| ANNUAL OPERATION | NG COST | 4.109 | 4.807 | |
| | PERSONNEL DATA | (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOYAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 58 | 3 | 42 | 16 |
| CIVILIAN | 1197 | 36 | 355 | 842 |
| TOTAL | 1255 | 39 | 397 | 858 |
| | SPACE | AND PROPERTY | , | |
| ACRES | SPACE (THOUSANDS | | | MILLION \$) |
| • | | OTHER | | OP EQUIP |
| 2009 | 1391.000 338.596 | | | 80 24.852 |

...MISSION
MILECIV FUNDED ENGR RSCH DEVEINVES IN HYD.ECOLOGY, PERMEEXPEDIENT PAVE—
MENTS, SOIL, CONCRETE, EXPLO WPN EFF, EXPLO EXCAVATION, VEH MOBILITYEENVIRON—
MENT ASPECTS OF MIL OP.CONSULTANT SVCETECH LIBRARY. TECH SURVL OF CEMENT
AND POZZOLAN TEST PROG.SERVES CE, AMC, DNA, AEC, OCD, AF, NAVYEOTHER AGENCIES.

...CURRENT IMPORTANT PROGRAMS
HYDEMATH MODELING TO SOLVE RIVER, TIDAL, WIND-WAVE, ECOLOGICAL & STRUC PROBS.
INVES MEANS OF AGUIRING TERRAIN DATA BY USE OF VARIOUS SENSING DEVICES.
NUCEHE RSCH TO DEV CRITERIA FOR ED OF PROTECTIVE STRUC BOTH UGNDEUNTR.
RSCH, DEVEFORMULATION OF NEWEIMP ENG CRITERIA ON ROADS, STORAGE AREAS, AIRFIELDSEHELIPORTS. INVES OF CEMENTITIOUS MATERSCH OF MASSESTRUC CONCRETE.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CDT RDT&E FOR MANY SPONSORS, PERF GEN INVES IN FLD OF HYD, SOIL MECH, CONCRETE, MOBILITY OF MIL VEH, EXPLO EFF, ECGLOGY, EXPLO EXCAVATION& PAVEMENTS.
THRU BR& APPLIED RSCH IN THESE FLD&RLT FLD, THE DEV OF METHODS& TECHNIQUES
AND THE TESTING OF MAT& EQUIP, ASST IN A __OMPMT OF THE CIV WORKS & MIL MSN
OF CE.WES RESERVATION ONTO BLOGS, TEST SITES, SPECL EQUIP& OTHER PLANT FAC.
TEST SITES& FAC FOR SP PURPOSES ARE MAINT IN OTHER AREAS ON PERM OR TEMP
BASIS. FAC INCL FLUMES OF DIFF TYPES& SIZES, WAVE& TIDE GENR MACH, DRILL
EQUIP, FULLY EQUIPED SOILS LAB, X-RAY DIFFRACTION AND SPECTROSCOPY APPAR,
FULLY EQUIPED CONCRETE LAB, LARGE & SMALL BLAST LOAD GENERATOR, 200K DYNAMIC
LOADER, MOBILITY TEST CARTS, SINGLE& MULTIPLE WHEEL LOAD CARTS FOR TFC, SUR
EFF BLAST FAC, HIGH&LOW FREQ VIBRATORS, ELECTRON MICROSCOPE, PHYS TREATMENT
LAB, CALBR LAB, ELCT LAB, LARGE SCALE CMPT FAC& A TECHNICAL LIBRARY.

PRES. COL ROBERT T. BLAKE

| | PROGRA | M DATA BY FISCA | AL YEAR (MILLION \$1 | |
|-----------------|----------------|-----------------|----------------------|------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 1.466 | 1.550 | |
| TOTAL PROCUREM | ENT | 0.054 | 0.000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 3.254 | 3.400 | |
| TOTAL ANNUAL LA | AB | 4.774 | 4.950 | |
| TOTAL INHOUSE | | 4.682 | 4.818 | |
| TOTAL INHOUSE I | RDT&E | 1.424 | 1.418 | |
| ANNUAL OPERATIO | NG COST | 0.250 | 0.283 | |
| | PERSONNEL D | ATA (END OF F | (1972) | |
| PEPSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 388 | 0 | 103 | 285 |
| CIVILIAN | 43 | 0 | 1 | 42 |
| TOTAL | 431 | 0 | 104 | 327 |
| | SPA | CE AND PROPERTY | 1 | |
| ACRES | SPACE (THOUSAN | DS OF SQUARE FI | EET) COST (! | ILLION \$) |
| | LAB AD | MIN OTHER | TOTAL REAL PRO | OP EQUIP |
| 23 | 26.286 47. | 135 56.138 | 129.559 3.3 | |

...MISSION
PLAN CONDUCT AND REPORT ON ST AND CK OF FA MAT PARTICIPATE IN ET IPT
AND PI AS DIR ADVISE PROPONENT AGENCIES AND MAT DEVELOPERS DURING
DEVELOPMENT OF FA MAT FROM DATA AND INFO DERIVED FROM TEST EXPERIENCE
CONDUCT OTHER TESTS AND EVAL AS DIRECTED BY CG TECOM

...CURRENT IMPORTANT PROGRAMS
EXPANDED SERVICE TEST TACFIRE
EXPANDED SERVICE TEST LANCE MISSILE SYSTEM AND XM234 WARHEAD SECTION
EXPANDED SERVICE TEST XM198 HOW
EXPANDED SERVICE TEST MET DATA SOUNDING SYSTEM
EXPANDED SERVICE TEST M110E2 HOW

...FUNCTIONS/EQUIPMENT/CAPABILITIES
THREE 105MM HOW TWO 155MM HOW ONE 8IN HOW/175MM GUN ONE AN MPQ4 RADAR
ONE MET STATION AND MAINTENANCE AND EVALUATION FACILITIES TO DO UP TO
GS MAINT ON TEST ITEMS ADDITIONAL SUPPORT WHEN NEEDED IS OBTAINED
FROM USAFACES

C.C. COL JAMES L. WALLACE TECH. DIR. DR., SIDNEY ROSS

| | PRO | | | AL YEAR (MI | LLION \$) | |
|---------------|-------------|----------|-----------|-------------|------------|----------|
| PROGRAM | | | 972 | 1973 | | |
| | | (ACT | UAL) | (ACT + EST | ·) | |
| TOTAL ROTGE | | | 32.246 | 21.0 | 27 | |
| TOTAL PROCURE | EMENT | | 3.026 | 9.0 | 28 | |
| M3O JATOT | | | 0.000 | 0.0 | 00 | |
| TOTAL OTHER | | | 0.083 | 0.0 | 57 | |
| TOTAL ANNUAL | LAB | | 35.355 | 30 • 1 | .12 | |
| TOTAL INHOUSE | | | 26.244 | 24.8 | 27 | |
| TOTAL INHOUSE | E RDT&E | | 23.135 | 15.7 | 42 | |
| ANNUAL OPERAT | TING COST | | 4.534 | 4.6 | 68 | |
| | PERSONNE | L DATA | (FND OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | ላፐዐፕ | i L | NON- |
| | STRENGTH | | PHDS | PRO |)F | PROF |
| MILITARY | 31 | | 2 | 22 | • | 9 |
| CIVILIAN | 1609 | | 38 | 724 | • | 885 |
| TOTAL | 1640 | | 40 | 746 | • | 894 |
| | | SPACE AN | D PROPERT | Y | | |
| ACRES | SPACE (THOU | SANDS UF | SQUARE F | EET) | COST (MIL | LION \$1 |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 43 | 558.000 1 | 34.000 | 557.000 | 1249-000 | 0.970 | 8 - 891 |

---MISSION
COMMODITY CENTER SMALL CAL AMMO, PROPELL ACT DEVICES, MULTIPURP TEST EQ,
FIRE CONTROL EQUIP, NON-FERR METALS, MATERIAL DEGRAD, MYCOLOGY, POWER TRANS
FLUIDS, SYNTH LUBS, PROPELLANTS, FXPLOS, PYROTECH, LASER COUNTERMEASURES,
R&D TFACER, AMMO DESIGN, DEVELOP ARTY METAL PARTS, MECH TIME FUZE.

---CURRENT IMPORTANT PROGRAMS
ARMY SMALL CALIBER AMMUNITION RESEARCH AND ENGINEERING PROGRAM,
SMALL CALIBER AMMUNITION MODERNIZATION PROGRAM,
FIRE CONTROL FOR- AIRCRAFT, ANTIAIRCRAFT, ARTILLERY, COMBAT VEHICLES,
TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT,
LASER COUNTERMEASURES AND PROTECTION RESEARCH AND EXPLORATORY DEVL.

***FUNCTIONS/EQUIPMENT/CAPABILITIES
RAPID SCAN SPECTROPHOTOMETER, PILOT PLANT TRACER LOADING FACILITY, OPTICAL
LAB&DESIGN FACILITY SHOP, LASER TEST FACILITY, SOLID STATE PHYSICS LAB,
ELECTRON MICROSCOPE, CRYSTAL GROWING EQUIP, ELECTRON BEAM VACUUM FILM DEPOSITION EQUIP, DYNAMIC PHOTOELASTIC STRESS ANALYSIS EQUIP, AIR GUN FACIL—
ITY, SPACE&ATMOSPHERIC SIMULATOR, CDC BATCH TERMINALS, HYDPAUL&MECH POWDER
MOLD EQUIP, VAC—ARC MELTING FURNACES, MICROSCAN X—RAY ANALYZER, RADIO—ISO—
TOPE LAB, MICROBIOLOGY LAB, TROPICAL CLIMATE ROOM, EPR SPECTROMETER, DIFF
SCAN CALORIMETER, PROPELLANT PROCESSING LAB, SPECIAL EQUIP FOR IGNITION &
PYRCTECH R&D, 15 FIRING RANGES, AIRBORNE FIRE CONTROL TEST EQ, 4 PADS FOR
POINT FUZE DETONATION, BALLISTIC MEAS EQUIP, DOPPLER RADAR SPECTRA PHOTO—
METER, K—BAND MICROWAVE INTERFEROMETER, MICROWAVE ANAECHOIC CHAMBER, AUTO—
MATIC CHECK—OUT EQUIP&LAB, HOLOGRAPHIC EQUIP, VERTICAL TEST TOWERS.

C.O. COL DAVID W. EINSEL TECH. DIR. BILLY M. HORTON

| | PRO | | | AL YEAR (M) | (LLION \$) | |
|---------------|-------------|-----------|-----------|-------------|------------|----------|
| PROGRAM | | | 972 | 1973 | | |
| | | (ACT | UAL) | (ACT + EST | T) | |
| TOTAL KDIEE | | | 45.986 | 42 • 8 | 306 | |
| TOTAL PROCURE | MENT | | 19.810 | 16-5 | 66 | |
| TOTAL UEM | | | 11.412 | 13.3 | 55 | |
| TOTAL OTHER | | | 0.575 | 0.3 | 364 | |
| TOTAL ANNUAL | LAB | | 77.783 | 73.0 | | |
| TOTAL INHOUSE | | | 40.845 | 28.7 | 773 | |
| TOTAL INHOUSE | RDT&E | | 33.530 | 25 • 4 | 62 | |
| ANNUAL OPERAT | ING COST | | 10.430 | 11-0 |)44 | |
| | PERSONNE | L DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOTA | AL. | NON- |
| | STRENGTH | | PHDS | PRO |)F | PROF |
| MILITARY | 9 | | 1 | | • | 3 |
| CIVILIAN | 1505 | | 61 | 533 | 3 | 972 |
| TOTAL | 1514 | | 62 | 539 | • | 975 |
| | | SPACE AN | D PROPERT | Y | | |
| ACRES | SPACE (THO! | JSANDS OF | SQUARE F | EET) | COST (MIL | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 2770 | 281.602 | 46.119 | 54.154 | 381.875 | 11.874 | 23.299 |

...MISSION
PROX FUZES FOR NUCLEAR ARTILLERY & MISSILES & FOR AIR TARGETS & MULTI.
OPTION FUZE FOR MORTARS/NUCLEAR EM PULSE & TRANSIENT RADIATION EFFECTS/
WEAPONRY & PERSONNEL DETECTION RADARS/FLUERICS/ELECT COMPONENT RELIABILI
TY & AUTOMATED PRODUCTION & TELEMETRY & ECCM*

...CURRENT IMPORTANT PROGRAMS
RD&E ON ELECTRONIC FUZING INCL PROXIMITY & TIME & COMMAND & MULTIOPTION/
LEAD LAB FOR NUCLEAR WEAPONS EFFECTS & FLUIDICS/WEAPON SYS ANALYSIS &
SYNTHESIS/INSTRUMENTATION & ENVIRONMENTAL SIMULATION/RESEARCH IN BASIC
ELECT & ENERGY CONVERSION & RADIATION PHYSICS & FLUIDICS & ELECTRO—
OPTICS & BASIC SCIENCES*

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SIMULATORS TO DETERMINE SUSCEPTIBILITY OF WEAPON SYSTEMS TO NUCLEAR
WEAPONS EFFECTS & TO ESTABLISH HARDENED DESIGNS/PULSED NUCLEAR REACTOR &
HIGH INTENSITY X RAY /AN EXTREMELY LARGE DOSE & VOLUME GAMMA RAY
GENERATOR AURORA & BICONIC ELECTROMAGNETIC PULSE EMP DEVICE & LARGE
TRANSPORTABLE EMP SIMULATOR TEMPS FOR HIGH ALTITUDE & THREAT LEVEL
ENVIRONMENT SIMULATION/ARTILLERY SIMULATOR TO EVALUATE EFFECTS OF FIRING
FORCES/LATITUDE MAGNETIC SIMULATOR FOR ANTITANK SIGNATURE ANALYSIS/INFRA
RED DARK TUNNEL/ANTENNA TEST RANGE/RADAR TEST SITE/ HIGH PRESSURE SHOCK
TUBES FOR STUDY OF HIGH TEMP GASES/ MERCURY ARC PLASMA TUBE & OPTICAL &
SPECTROSCOPIC EQUIPMENT*

CANAL THE WAR THE WAS THE AREA OF THE SECOND

DIR. DR. JOHN D. WEISZ EXEC. LTC RICHARD D. KAVANAUGH

| PROGRAM | ROGRAM DATA BY FISCAL 1972 (ACTUAL) (A | YEAR (MILLION \$) 1973 CT + EST) |
|--|--|---|
| TOTAL ROTGE TOTAL PROCUREMENT TOTAL OGM TOTAL OTHER TOTAL ANNUAL LAB | 3.208 0.071 0.056 0.294 3.629 | 3.330 0.000 0.036 0.305 3.671 |
| TOTAL INHOUSE TUTAL INHOUSE ROTEE ANNUAL OPERATING COST | 3.253 2.832 1.330 | 3.343 3.002 1.379 |

| | PERSONNEL DATA | LEND OF FY | 1972) | |
|------------|----------------|------------|-------|------|
| PERSONNEL | AUTHORÍZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY . | 30 | 1 | 19 | 11 |
| CIVILIAN | 100 | 10 | 53 | 47 |
| TOTAL | 130 | 11 | 72 | 58 |

| 46056 | 55465 4745 | | PROPERTY | | COST /HTLL | 704 43 |
|-------|------------|-----------|------------|--------|------------|--------|
| ACRES | SPACE (THU | USANOS UF | SQUARE FEI | E () | COST (MILL | TON 2) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 10 | 26.500 | 17-605 | 28.953 | 73.058 | 0.709 | 2.600 |

CONDUCT BASIC AND APPLIED RESEARCH IN HUMAN FACTORS ENGINEERING DEVELOP NEW HUMAN FACTORS ENGINEERING METHODOLOGY ESTAB AND OPERATE A MPR CHARACTERISTICS DATA BANK INTER ALL MPR CHARACTERISTICS INTO ARMY MAT DEVELOPMENT PROGRAM

...CURRENT IMPORTANT PROGRAMS
HUMAN ENGR LAB ARMOR SYSTEMS TESTS, HELAST
COMBAT-LIKE PSYCHOLOGICAL STRESS EFFECTS
SHORT RANGE MANPORTABLE ANTITANK WEAPON TECHNOLOGY
HUMAN FACTORS ENGR IN SPT OF AIR MOBILITY
NOISE ABATEMENT

***FUNCTIONS/EQUIPMENT/CAPABILITIES
FIXD WING FLIGHT SIMULATORS
HELICOPTER SIMULATORS - WHIRLYMITE
COMMAND AND CONTROL INFORMATION HANDLING SIMULATORS
ANECHOIC CHAMBER
PHYSIOLOGY LABORATORY WITH INSTRUMENTATION
SMALL ARMS TEST FIRING RANGE
ANIMAL SURGICAL FACILITY
NOISE MEASURMENT AND ANALYSIS INSTRUMENTATION
WOOD AND METAL WORKING TEST SUPPORT CAPABILITY
BODY ARMOR TEST SITE
CENTRAL NERVOUS SYSTEM OUTPUT RECORDING INSTRUMENTATION
HUMAN PERFORMANCE DATA BANK

THE RELEASE COURS OF A SALESMAN SALESMAN AS A SALESMAN SALESMAN OF A SALESMAN SALESMAN AND A SALESMAN AS A SALESMA

PRES. COL WALTER E. MEINZEN

| PROGRAM | PROGRAM DATA BY | FISCAL YEAR (MI | LLION \$) |
|-----------------------|-------------------|---|-------------------|
| PRUGRAM | (ACTUAL) | | • • |
| TOTAL RDT&E | · · | · · - · · · - · · · - · · · - · · · · - · | - |
| | 1.2 | | , |
| TOTAL PROCUREMENT | 0.0 | | |
| TOTAL DEM | 0.0 | | = = |
| TOTAL OTHER | 1.4 | | 103 |
| TOTAL ANNUAL LAB | 2.7 | 46 3.1 | .99 |
| TOTAL INHOUSE | 2.6 | 31 3.1 | 153 |
| TOTAL INHOUSE RDT&E | 1.1 | 79 1.2 | 250 |
| ANNUAL OPERATING COST | 0.1 | 85 0.1 | . 85 |
| PER | SONNEL DATA (END | OF FY 1972) | |
| PERSONNEL AUTHOR | | | AL NON- |
| STRE | NGTH PH | DS PRO | PROF |
| MILITARY | 184 | 0 22 | 2 162 |
| CIVILIAN | 55 | 0 2 | 53 |
| TOTAL | 239 | 0 24 | 215 |
| | SPACE AND PR | OPERTY | |
| ACRES SPACE | (THOUSANDS OF SQU | | COST (MILLION \$) |
| LA | | THER TOTAL | REAL PROP EQUIP |
| 14959 0.0 | | . 576 78 . 629 | 0.500 0.360 |

---MISSION
PLAN CONDUCT & REPORT YESTS RELATED TO SUITABILITY OF EQUIP FOR ARMY USE
PERFORM CUSTOMER TESTS TO EXPEDITE DEVELOPMENT & PROCUREMENT TEST PRGS
CONTROL PROGRAM ON TEST METHODOLOGY INSTRUMENTATION AND FACILITIES
PROVIDE ACVICE TO DEVELOPERS DURING THEIR DEVELOPMENT OF INFANTRY EQUIP

...CURRENT IMPORTANT PROGRAMS
EXPANDED SERVICE TEST MEDIUM ANTITANK ASSAULT WEAPON XM47 URAGON
STUDY TO IMPROVE TEST METHODOLOGY AND DEVELOPE INSTR TEST FACILITIES
SERVICE TESTS OF NIGHT VISION SIGHTS ANPVS-4
DESERT CLOTHING SYSTEM
SERVICE TEST LIGHT WEIGHT LOADCARRYING EQUIPMENT

***FUNCTIONS/EQUIPMENT/CAPABILITIES
SERVICE TEST EQUIP & ANCILLARY ITEMS USED BY INF FOR FIRE POWER TARGET
ACQUISITION GROUND SURVEILLANCE FIRE CONTROL & GROUND MOBILITY FIELD
CLOTHING EQUIP & RATIONS AP MINES CB EQUIP FOR INDIVIDUALS & SMALL UNITS
AIRBORNE TEST OF EQUIP WORN OR CARRIED BY PARACHUTISTS WHILE JUMPING
PROVIDE REPRESENTATION FOR IN-PROCESS REVIEWS
ASSIST IN PREPARATION OF AND REVIEW MATERIEL NEEDS
PLAN DIRECT AND CONTROL PROGRAM IN TEST METHODOLOGY & INSTRUMENTATION
EVALUATE & MAKE RECOMMENDATIONS CONCERNING SUITABILITY AND SAFETY OF
TEST ITEMS FOR OPERATIONAL USE
KNOWN DISTANCE SMALL ARMS RANGE MORTAR RANGE & INSTRUMENTED ANTITANK
RANGE DEFENSE RANGE ATTACK RANGE & QUICK FIRE RANGE CLIMATIC CHAMBER
CLIMATIC CHAMBER

E PER SANGE WEST PROPERTY AND ASSESSED.

C.O. BG SURINDAR N. BHASKAR

| PROGRAM | PROGRAM DATA BY FISCAL 1972 | YEAR (MILLION \$) 1973 |
|-----------------------|--------------------------------|---------------------------|
| | (ACTUAL) (/ | ACT + EST) |
| TOTAL RDT&E | 0.715 | 0.866 |
| TOTAL PROCUREMENT | 0.000 | 0.000 |
| TOTAL OGM | 0.048 | 0.061 |
| TOTAL OTHER | 0.621 | 0.708 |
| TOTAL ANNUAL LAB | 1.384 | 1-635 |
| TOTAL INHOUSE | 1.384 | 1.635 |
| TOTAL INHOUSE ROTEE | 0.715 | 0.866 |
| ANNUAL OPERATING COST | 0.112 | 0.127 |
| DEDC | ONNEL DATA LEND OF EV | 10701 |

| | PERSONNEL DATA | (END OF F | Y 1972) | |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 56 | 10 | 30 | 26 |
| CIVILIAN | 25 | 1. | 9 | 16 |
| TOTAL | 81 | 11 | 39 | 42 |

| ACRES | SPACE (THO | | D PROPERTY Square fee | T) | COST (MILL | ION \$) |
|-------|------------|-------|--------------------------|--------|------------|---------|
| | L AB | ADMIN | OTHER | | REAL PROP | EQUIP |
| 0 | 7.711 | 4.722 | 1.425 | 13.858 | 0.000 | 0.670 |

...MISSION
CONDUCT CLINICAL INVESTIGATIONS AND RESEARCH IN ETIDLOGY, CONTROL AND PREVENTION OF DRAL DISEASE. DEVELOP SIMPLIFIED TECHNIQUES OF EFFECTIVE TREATMENT INCLUDING MAXILLOFACIAL INJURIES. INVESTIGATE PROPERTIES AND USES OF DENTAL MATERIALS. CONDUCT DENT EDUCATION AND TRAINING PROGRAMS.

...CURRENT IMPORTANT PROGRAMS WATER LAVAGE.
RESTORATIVE MATERIALS.
NITINOL.
ELECTRO-AJESTHESIA.
BIODEGR*JEABLE MATERIALS.

*** FUNCTIONS / EQUIPMENT/CAPABILITIES
MAJOR EQUIPMENT INCLUDES ELECTRON MICROSCOPES, STRESS/FATIQUE TESTING
EQUIPMENT, SPECTROPHOTOMETER, SCINTILLATION COUNTER, LYOPHILIZERS, GAS
CHROMOTOGRAPH, CRYOSTAT, GRYOSURGERY UNIT, DENTAL OPERATING EQUIPMENT,
ULTRACENTRIFUGE, MULTI CHANNEL PHYSIOLOGIC RECORDERS, THERMAL ANALYSIS
SYSTEM, MICROS TOOLMAKER, MICROSCOPES AND STERILIZERS. CAPABILITIES
INCLUDE FULL SPECTRUM BIOCHEMISTRY, HISTOLOGIC, PATHOLOGIC, MICROBIOLOGIC AND ELECTRON MICROSCOPY LABORATORIES, EXTENSIVE METALLURGICAL
AND MATERIALS TESTING LABORATORY, ANIMAL SURGERY, DENTAL RESEARCH, AND
EDUCATION.

C.O. COL BASIL A. PRUITT, JR. TECH. DIR. ARTHUR D. MASON

| | PRO | GRAM DATA | BY FISC | AL YEAR (M | ILLION \$) | |
|---------------|-------------|-----------|----------|------------|------------|----------|
| PROGRAM | | 19 | 72 | 1973 | 1 | |
| • | | (ACTU | AL) | (ACT + ES | T) | |
| TOTAL ROTEE | | | 1.435 | 1. | 633 | |
| TOTAL PROCURE | MENT | | 0.000 | 0. | 000 | |
| TOTAL OSM | | | 0.000 | 0. | 000 | |
| TOTAL OTHER | | | 1.364 | 1. | 534 | |
| TOTAL ANNUAL | LAB | | 2.799 | 3. | 167 | |
| TOTAL INHOUSE | | | 2.799 | 3. | 167 | |
| TOTAL INHOUSE | RDT&E | | 1.435 | 1. | 633 | |
| ANNUAL SPERAT | ING COST | | 0-105 | 0. | 120 | |
| • | PERSONNE | L DATA (| END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOT | 'AL | NON- |
| | STRENGTH | | PHDS | PR | OF . | PROF |
| MILITARY | 127 | | 20 | 4 | 2 | 85 |
| CIVILIAN | 79 | | 3 | 2 | 0 | 59 |
| TOTAL | 206 | | 23 | 6 | 2 | 144 |
| | | SPACE AND | | | | |
| ACRES | SPACE (THOU | | SQUARE F | EET) | COST (MIL | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 1 | 25.424 | 0.800 | 19.000 | 45-224 | 1.968 | 0.968 |

CONDUCT BOTH CLINICAL AND LABORATORY STUDIES IN TREATMENT OF THERMAL AND TRAUMATIC INJURIES. PROVIDE CARE FOR PATIENTS WITH THESE TYPES OF INJURIES. TRAIN OTHERS IN THE CARE OF SUCH PATIENTS.

... CURRENT IMPORTANT PROGRAMS STUDY OF POST BURN HEMODYNAMIC AND PULMONARY CHANGES. CLINICAL AND LABORATORY STUDIES OF INFECTION IN BURN PATIENTS.
STUDY OF ACUTE RENAL FAILURE AND RENAL PHYSIOLOGY.
STUDY OF POST BURN HEMATOLOGY AND IMMUNOLOGY. METABOLIC CHANGES FOLLOWING BURNS AND EFFECTS OF HYPERALIMENTATION.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
OPERATES 60 BEDS FOR SERIOUSLY BURNED AND INJURED PATIENTS. PROVIDES CLINICAL LABORATORY SUPPORT AND RESEARCH CAPABILITIES IN THE FIELDS OF PATHOLOGY, ELECTRON MICROSCOPY, MICROBIOLOGY, EXPERIMENTAL SURGERY, RENAL PHYSIOLOGY AND BIOCHEMSTRY. MAINTAINS AN ANIMAL COLONY, ELECTRONIC SHOP, MACHINE SHOP, SURGICAL LIBRARY, AND A METABOLIC CHAMBER.

C.O. COL R.L. CLARKSON TECH. DIR. DR. R.D. SHELTON

| PROGRAM | | 1972 | 1973 | • |
|----------------|---------------|----------------|--------------|-------------|
| FROORAM | | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 8.551 | 6.300 | |
| | ACAIT | | | |
| TOTAL PROCURE | TENT | 0.000 | 0.000 | |
| TOTAL OEM | | 0.038 | 0.000 | |
| TOTAL OTHER | • | 0-264 | 0.238 | |
| TOTAL ANNUAL L | .AB \(\) | 8.853 | 6.538 | |
| TOTAL INHOUSE | • | 5.262 | 4.673 | |
| TOTAL INHOUSE | ROTEE | 4.996 | 4.435 | |
| ANNUAL OPERATI | | 2.355 | 2.390 | |
| ANNOAL OFERALL | ING COST | 2.333 | 2.370 | |
| | PERSONNEL | DATA (END OF | FY 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHD\$ | PROF | PROF |
| MILITARY | 16 | 0 | 14 | 2 |
| CIVILIAN | 111 | 3 | 55 | 56 |
| TOTAL | 127 | 3 3 | 69 | 58 |
| TOTAL | | • | 0, | 30 |
| | SP | ACE AND PROPER | TY | |
| ACRES | SPACE (THOUSA | NDS OF SQUARE | FEET) COST (| MILLION \$) |
| | | DMIN OTHER | · | |
| 80 | | .655 12.628 | | |
| | | | | |

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

...MISSION
TO PROVIDE A CENTRALIZED QUICK REACTION RESEARCH AND DEVELOPMENT
FACILITY FOR ACCOMPLISHING DEVELOPMENT OF SPECIALIZED MILITARY ITEMS
AND FOR THE GENERATION OF NEW IDEAS FOR SUCH MATERIAL

...CURRENT IMPORTANT PROGRAMS
TACTICAL CAMOUFLAGE AND CONCEALMENT
HARDWARE IN SUPPORT OF ARCTIC OPERATIONS
CONTROL OF DRUGS AND CIVIL DISTURBANCE
TARGET DETECTION AND LOCATION
SURVIVAL AND IMPROVED COMBAT EFFECTIVENESS OF THE INDIVIDUAL

THE USALWL PROVIDES RESEARCH AND DEVELOPMENT ASSISTANCE TO SOLUTION OF FIELD PROBLEMS IN ALL THEATERS AND IN ALL CLIMATES AND GEOGRAPHIES. THE LABORATORY CAPABILITY COVERS ALL MAJOR SCIENTIFIC AREAS. WITH 69 PROFESSIONAL PERSONNEL THE ORGANIZATION CONTAINS 7 SMALL WELL-EQUIPPED WORKING LABS IN COMMUNICATIONS/ELECTRONICS, MUNITIONS, MOBILITY, ENVIRONMENT AND SURVIVAL, APPLIED CHEMISTRY, APPLIED PHYSICS AND BIOLOGICAL SCIENCES. FURTHER, THE LABORATORY HAS INHOUSE DESIGN AND PROTOTYPE FABRICATION CAPABILITY IN METALS AND WOOD. THE ORGANIZATION IS ASSIGNED AN CIGHTY ACRE TEST FACILITY FOR DEVELOPMENTAL TESTING OF PERTINENT ITEMS AND IS LOCATED AT ABERDEEN PROVING GROUND, MARYLAND WHERE MANY MAJOR TESTING FACILITIES ARE READILY AVAILABLE.

PRESIDIO, S.F., CAL.

INSTALLATION LETTERMAN ARMY INSTITUTE OF RESEARCH

C.O. COL WILLIAM A. AKERS TECH. DIR. DR. JAMES R. NEVILLE

| | PRO | GRAM DATA | BY FISC | AL YEAR (MI | LLION \$) | |
|---------------|-------------|-------------|---------|-------------|-----------|----------|
| PROGRAM | | 197 | 2 | 1973 | | |
| | | (ACTUA | L) | (ACT + EST |) | |
| TOTAL ROTGE | | 0 | .704 | 0.7 | 27 | |
| TOTAL PROCURS | MENT | 0 | .000 | 0.0 | 00 | |
| TOTAL OEM | | 0 | .000 | 0.0 | 00 | |
| TOTAL OTHER | | 11 | .256 | 12.4 | 26 | |
| TOTAL ANNUAL | LAB | 11 | -960 | 13.1 | 53 | |
| TOTAL INHOUSE | • | 1 | •462 | 1.7 | 06 | |
| TOTAL INHOUSE | RDT&E | O | .704 | 0.7 | 27 | |
| ANNUAL OPERAT | ING COST | o | -296 | 0.2 | 78 | |
| | PERSONNE | L DATA (E | NO OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | - τ | OTAL | TOTA | L | NON- |
| | STRENGTH | | PHDS | PRO | F | PROF |
| MILITARY | 90 | | 19 | 50 | l | 40 |
| CIVILIAN | 20 | | 2 | 10 | 1 | 10 |
| TOTAL | 110 | | 21 | 60 | 1 | 50 |
| | | SPACE AND | PROPERT | Y | | |
| ACRES | SPACE (THOU | ISANDS OF S | QUARE F | EET) | COST (MIL | LIGN \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 2 | 60102 | 8-900 | 0.000 | 69.002 | 0.467 | 2-670 |

CONDUCTS RESEARCH IN THE FIELDS OF MEDICINE AND DENTISTRY. GUIDES, CO-DRDINATES AND SUPPORTS RESEARCH PROJECTS OF STAFF MEMBERS OF LETTERMAN GENERAL HOSPIYAL. SUPPORTS RESEARCH IN HOSPITALS AT CLASS I INSTALLA-TIONS. MONITORS OTHER RESEARCH AS DIRECTED BY CG, USAMRDC.

...CURRENT IMPORTANT PROGRAMS
ASSULTS AGANIST HUMAN SKIN BY WATER, HEAT, HUMIDITY, FRICTION, INSECTS, BACTERIA, FUNGI, ALONE AND IN COMBINATION. SURVEY OF MAXILLOFACIAL INJURIES, EARLY RESTORATION OF ORAL INTEGRITY, BONE REPAIR, BACTERMIA, HEMORRHAGIC SHOCK. TEST COMPOUNDED RADIO-PHARMACEUTICALS.

LABORATORIES EQUIPPED FOR CUTANEOUS AND ORAL BACTERIOLOGY, BIOCHEMISTRY, BLOOD GAS ANALYSIS, CHROMATOGRAPHY, ENZYMOLOGY, HEMATOLOGY, HISTOLOGY, IMMUNOLOGY, MYCOLOGY, NUCLEAR PHARMACY, ANIMAL PHYSIOLOGY, AND ISOTOPIC SCANNING. THIRTY MILITARY VOLUNTEERS ARE USED IN STUDIES OF DELAYED HYPERSENSITIVITY, FRICTION BLISTERS, FUNGAL SKIN INFECTIONS, MOSQUITO REPELLENTS, PROLONGED WARM WATER IMMERSION AND PRICKLY HEAT RASH. MAINTAIN BREEDING COLONY OF MOEN-CHASE GUINEA PIGS FOR CUTANEOUS DELAYED HYPERSENSITIVITY. BONE GRAFTING, REPAIR, AND HEALING STUDIES EMPLOY ANGER SCINTILLATION CAMERA, PHYSICAL METHODS AND HISTOLOGY. RADIOIMMUNO-ASSAYS OF ANGIOTEMSIN I AND III AND RENIN IN CLINICAL USE. DXYHEMOGLOBIN DISSOCIATION VALUES OBTAINABLE IN FIVE MINUTES USING 0.5 MIL BLOOD AND NOW BEING EVALUATED IN MAN.

CALL STATE OF THE WAY OF THE STATE OF THE ST

WATERTOWN, MASS.

INSTALLATION MATERIALS AND MECHANICS RESEARCH CENTER

C.O. LTC R.B. HENRY DIR. DR. A.E. GORUM

| PROGRAM | PROGRAM DATA BY FISCA 1972 (ACTUAL) | L YEAR (MILLION \$) 1973 (ACT + EST) |
|--|---|---|
| TOTAL ROTGE TOTAL PROCUREMENT TOTAL OEM TOTAL OTHER TOTAL ANNUAL LAB | 27.293 4.534 1.655 0.000 33.682 | 19.475 4.715 2.189 0.000 26.379 |
| TOTAL INHOUSE ROTEE ANNUAL OPERATING COST | 15.257 13.173 5.984 | 13.233 10.527 6.240 |

| | PERSONNEL DATA | (END OF FY | 1972) | |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 10 | 5 | 10 | 0 |
| CIVILIAN | 607 | 65 | 219 | 388 |
| TOTAL | 617 | 70 | 229 | 388 |

| | | SPACE AN | D PROPERTY | | | |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE | ET) | COST (MILI | ION \$) |
| | LAB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 48 | 381.778 | 89.394 | 203.880 | 675-052 | 14.247 | 11-417 |

MANAGE AMC RED STRUC MAT & MECH PROG AS LEAD LAB FOR MAT, SOLID MECH & TESTING TECHNOLOGY.COT TECHNOLOGICAL PROG IN MAT & MECH USED IN ARMY MATERIEL, EXEC PROG IN DWN FAC & BY ASSIGNMENT & FUND TRF TO OTHER AMC LABS & CONTRACTORS.

...CURRENT IMPORTANT PROGRAMS
R&D PROGRAMS FOR IMPROVED MATERIAL - ARMOR
R&D PROGRAMS FOR IMPROVED MATERIAL - ABM HARDENING
R&D PROGRAMS FOR IMPROVED MATERIAL - AIRCRAFT
R&D PROGRAMS FOR IMPROVED MATERIAL - MATERIALS-PROCESSING & EVALUATION
R&D PROGRAMS FOR IMPROVED MATERIAL - ARMAMENTS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MANAGE AMC R&D PROG IN MATERIALS & MECHANICS & CONDUCT TECH PROGS IN MATERIALS SYSTEMS & MECHANICS DIRECTED TO ARMY MATERIEL.MANAGE DOD PROG AS
EXECUTIVE AGENT-ARMOR TECHNOLOGY.MANAGE & CONDUCT INTEGRATED & DIRECTED
BASIC & APPLIED RES ON MATERIALS SUCH AS METALS, CERAMICS, ORGANIC & INORGANIC POLYMERS & COMPOSITES.MANAGE & CONDUCT THEORETICAL & APPLIED
STUDIES ON MECH OF MATLS & SYSTEMS, IDENTIFY & INVES BASIC FACTORS INVOLVED IN PROC & APPL OF NEW & IMPROVED MATLS. TECH MANAGE FIVE INFO ANAL
CEN.ASST IN DESIGN & DEV OF PROTOTYPES. DEV METHODS FOR TEST & EVAL OF
MATS & STRUCTURES.MANAGE ARMY PORTION DEFENSE STANDARDIZATION PROG.CONDUCT ENGINEERING STANDARDIZATION EFFORT. MANAGE AMC, MATERIALSTESTING PROG
.CONDUCT PEMA MANUFACTURING METHODS & TECHNOLOGY PROGRAMS & ADVISE
COMMAND & INDUSTRY ON PROCESSING TECHNIQUES.

Medicality of the sold of the

8.700

DIR. DR. JOSEPH SPERRAZZA ASSOC. DIR. WALLACE H. HARRIS

| | PRUGRAM | DAIA BY LTD | PAT AFRK (WIFFIN | > 1 |
|--------------|------------------|-------------|------------------|---------------|
| PROGRAM | | 1972 | 1973 | |
| | (| ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 14.044 | 11.262 | |
| TOTAL PROCUR | EMENT | 0.000 | 0.000 | |
| TOTAL DAM | | 1.525 | 1.785 | |
| TOTAL OTHER | | 0.000 | 0.000 | |
| TOTAL ANNUAL | LAB | 15.569 | 13.047 | |
| TOTAL INHOUS | E | 8.455 | 8.250 | |
| TOTAL INHOUS | E ROTEE | 7.512 | 7.262 | |
| ANNUAL OPERA | TING COST | 1.845 | 1.674 | |
| | PERSONNEL DAT | A (END OF | FY 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 13 | 0 | 13 | 0 |
| CIVILIAN | 314 | 7 | 238 | 76 |
| TOTAL | 327 | 7 | 251 | 76 |
| | SPACE | AND PROPER | TY | |
| ACRES | SPACE (THOUSANDS | OF SQUARE | FEET) COST | (MILLION \$) |
| | LAB ADMI | N OTHER | TOTAL REAL | PROP EQUIP |

DODCDAM DATA BY STECAL VEAD (MILLION 4)

TO PROVIDE THE CENTRAL TECHNICAL GAPABILITY OF AMC FOR THE CONDUCT OF MAJOR SYSTEMS ANALYSES OF PROPOSED AND EXISTING ARMY WEAPONS/MATERIEL SYSTEMS SERVES AS THE AMC FIELD AGENCY TO ADMINISTER THE JOINT TECHNICAL COORDINATING GROUP FOR MUNITIONS EFFECTIVENESS PROGRAM

3.000

48.200

1.773

0.360

...CURRENT IMPORTANT PROGRAMS
SYSTEMS ANALYSIS OF GROUND WEAPONS SYSTEMS
SYSTEMS ANALYSIS OF AIR WARFARE SYSTEMS
SYSTEMS ANALYSIS OF COMBAT SUPPORT SYSTEMS
SYSTEMS ANALYSIS OF RELIABILITY AVAILABILITY AND MAINTAINABILITY
COORDINATION OF JOINT MUNITIONS EFFECTIVENESS

36.500

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCT AMC WPN SYS ANALYSIS AND EVAL OF MATERIAL CONCEPTS AND PROPOSALS
DEVELOPS, IMPROVES, AND DISSEMINATES METHODOLOGY AND TECHNIQUES FOR—
CONDUCT OF SYS ANALYSIS, ANAL OF PERFORMANCE, SCHEDULE AND COST RISKS,
DESIGN, CONDUCT AND EVAL OF TESTS. EVAL LIFE CYCLE REQ OF MATERIAL SYS.
CONDUCTS TACTICAL, OPERATIONAL ANALYSIS OF MPN & MATERIAL SYSTEMS.
RELIABILITY, AVAILABILITY AND MAINTAINABILITY CENTER FOR ARMY SYS. TECH
DIR OF AMC SURVEILLANCE PROGRAM FOR STOCKS OF ARMY MISSLES, NUCLEAR,
AND NONNUCLEAR AMMUNITION. PROVIDE TECH COORD, DATA, AND ANALYSIS FOR
DETERMINATION OF JOINT SERVICES MUNITIONS EFFECTIVENESS MODELS AD
MANUALS.

C.O. COL WALTER R. HARRIS TECH. DIR. R.P. WITT

| PROGRAM | PROGRAM DATA BY FISC | 1973 |
|-----------------------|----------------------|-------------|
| | (ACTUAL) | (ACT + EST) |
| TOTAL ROTGE | 8.770 | 8.433 |
| TOTAL PROCUREMENT | 15.876 | 15.264 |
| TOTAL DEM | 0.915 | 0.887 |
| TOTAL OTHER | 0.953 | 0.861 |
| TOTAL ANNUAL LAB | 26.514 | 25.445 |
| TOTAL INHOUSE | 25.908 | 24.885 |
| TOTAL INHOUSE ROTEE | 8.604 | 8.273 |
| ANNUAL OPERATING COST | 14.881 | 14.234 |
| PERS | DNNEL DATA (END OF F | Y 1973) |

| PERSONNEL | AUTHORIZED STRENGTH | TOTAL PHDS | TOTAL PROF | NON- PROF |
|-----------|------------------------|------------|---------------|--------------|
| MILITARY | 99 | 0 | 61 | 38 |
| CIVILIAN | 9 79 | 1 | 171 | 808 |
| TOTAL | 1078 | 1 | 232 | 846 |

| ACRES | SPACE (TH | OUSANDS OF | SOUARE F | • | COST (MIL | LION \$1 |
|--------------|-----------|------------|----------|----------|-----------|----------|
| | L AB | ALMIN | OTHER | | REAL PROP | EGUIP |
| 67750 | 1220.000 | 424.000 | 905.000 | 2549.000 | 227.000 | 82.000 |

PLAN CDT & REPT TESTS OF WPNS WPN SYS RKTS & GM SYS FIRE CON SURV & TGT ACQ EQUIP ITEMS OF AMMO & MUN COMPONENTS CBT VEHS OTHER AUTO MAT GEN EQUIP SUCH AS GENERATORS & AIR CONDS PROC INSP STORE & ISSUE ARMOR PLATE FOR ALL USAMC AMMO TESTING PROV R&D ADVICE TO PROPONENT AGCYS & DEVELOP-

---CURRENT IMPORTANT PROGRAMS
ENGR TEST FUZE MINE AT XM616
FATIGUE CORRELATION TEST CANNON 105MM GUN M68
ENGR DESIGN TEST TRUCKS CARGO/AMBULANCE 11/4T XM705/XM737
PROD 1MP TEST 105MM M392 APDS-T WITH REDUCING LINER
FEAS OF MEAS GENERATOR PERFORMANCE CHARACTERISTICS WITH A COMPUTER

...FUNCTIONS/EQUIPMENT/CAPABILITIES ERS DURING DEVELOPMENT STAGE

TEST AREA 68700 ACRES RANGE TO LAND IMPACT 26000 M RANGE TO WATER IMPACT 30000 M 41 M1 OF AUTHV CRS INCL 27 SP ENGR TEST CRS & OBSTACLES VARIETY CF ENVIR OR COND EQUIP SP CHAMBERS FOR SUBJECTING EQUIP TO DUST SALT SPRAY OR SOLAR RADN ISOLATED VIBRATION TEST FAC WHICH PERMITS SHAKING EXPLO EQUIP SIMULTANEOUSLY WITH TEMP CONDITIONING FAC FOR CONTROLLED TESTS OF ELEC CON & GUIDANCE EQUIP FREQ SOURCE WHICH PERMITS TESTING ALL TYPES OF MAT IN PRESENCE OF A HIGH INTENSITY ELEC MAGNETIC RADN SP FAC FOR TEST OF ARMOR PLATE SP VEL & TGT EQUIP IS AVAL FOR OBSERVATIONS DURING RAPID FIRE AS IS A RKT TRACK FOR CONTROLLED TERMINAL BALLISTIC TESTS FAC AVAIL FOR TESTS OF SP ELECTRONIC & FIRE CON EQUIP & RELATED SYS & COMPONENTS

INSTALLATION MEDICAL BIOMECHANICAL RESEARCH LABORATORY WASHINGTON, D.C.

C.O. COL ORLYN C. DESTEREICH SCI. DIR. DR. FRED LEONARD

| PROGRAM | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PRUGRAM | : | (ACT + EST) |
| TOTAL ROTEC | 0.855 | 0.000 |
| TOTAL PROCUREMENT | 0.000 | 0.000 |
| TOTAL OEM | 0.000 | 0.000 |
| TOTAL OTHER | 0.160 | 0.000 |
| TOTAL ANNUAL LAB | 1.025 | 0.000 |
| TOTAL INHOUSE | 1.025 | 0.000 |
| TOTAL INHOUSE RDT&E | 0.865 | 0.000 |
| ANNUAL OPERATING COST | 0.035 | 0.000 |
| PERSI | ONNEL DATA LEND DE EY | 1972) |

| | PERSONNEL DATA | (END OF FY | (1972) | |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 18 | 2 | 12 | 6 |
| CIVILIAN | 30 | 4 | 15 | 15 |
| TOTAL | 48 | 6 | 27 | 21 |

| | | SPACE AND | PROPERTY | | | |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | ET) | COST (MILL | ION \$) |
| | L AB | NINGA | OTHER | TOTAL | REAL PROP | EQUIP |
| 0 | 11.463 | 1.022 | 0-000 | 12.485 | 0.976 | 0.410 |

...MISSION
TO CONDUCT FUNDAMENTAL AND APPLIED RESEARCH TO DEVELOP MATERIALS AND
DEVICES FOR INTERNAL AND EXTERNAL BIOMECHANICAL APPLICATION AND THE FABRICATION OF PROTOTYPE DEVICES OF SPECIALIZED MILITARY NATURE OF MILITARY
INTEREST.

...CURRENT IMPORTANT PROGRAMS
INSTRUMENTATION TO DIFFERENTIATE BETWEEN VIABLE AND NECROTIC TISSUE.
SYNTHESIS AND CHARACTERIZATION OF SURGICAL REPAIR MATERIALS AND HEMOSTATIC AGENTS. MINERALIZATION OF SKELETAL AND SOFT TISSUE AND MEANS OF
ENHANCING THE RATE OF BONE HEALING. PROSTHETIC AND ORTHOTIC DEVICES
FOR THE SEVERLY HANDICAPPED/TRAUMATIZED PATIENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
LAB HAS SUFFICIENT EQUIPMENT AND FACILITIES TO CARRY OUT AN ONGOING
RESEARCH PROGRAM IN THE BIOENGINEERING FIELD. THIS INCLUDES INSTRUMENTATION FOR LIGHT SCATTERING, CHROMATOGRAPHY, ULTRACENTRIFUGATION RADIOASSAYS, OPTICAL METHODS, DTA, SYNTHESES, STEAM STERILIZATION, OVENS,
BATHS, HISTOLOGY AND ELECTRON MICROSCOPY. LAB HAS CAPABILITY TO PERFORM
ISOTOPF, METABOLIC, AUTORADIOGRAPHY, CELL ORGANELLE, RADIOLOGY, X-RAY,
AND CELL AND TISSUE CULTURE STUDIES. FACILITIES INCLUDE AN ANIMAL HOLDING FACILITY, EXPERIMENTAL SURGERY ROOM, AND A MACHINE SHOP EQUIPPED
WITH WELDING AND METAL WORKING MACHINES.

C.O. COL WILLIAM L. BOST TECH DIR AARON ISMACH

| | PROGRAM | | L YEAR (MILLION | \$} |
|----------------|--------------|-----------------|-----------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 0.775 | 0.000 | |
| TOTAL PROCUREM | ENT | 0.000 | 0.000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.174 | 0.000 | |
| TOTAL ANNUAL L | AB | 0.949 | 0.000 | |
| TOTAL INHOUSE | | 0.949 | 0.000 | |
| TOTAL INHOUSE | RDT&E | 0.775 | 0.000 | |
| ANNUAL OPERATI | NG COST | 0-423 | 0.000 | |
| | PERSONNEL DA | ATA (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 15 | 0 | 1 | 14 |
| CIVILIAN | 34 | 0 | 3 | 31 |
| TOTAL | 49 | 0 | 4 | 45 |
| | SP A | CE AND PROPERTY | | |
| ACRES | | DS OF SQUARE FE | | (MILLION \$) |
| | | IN OTHER | TOTAL REAL | PROP EQUIP |
| 0 | | 081 6.469 | 37.073 0 | .444 0.444 |

...MISSION .
CONDUCTS ENGINEERING RESEARCH AND DEVELOPMENT LEADING TO PRODUCTION OF FIELD MEDICAL EQUIPMENT FOR THE ARMY AND ON A REQUIRED BASIS FOR THE OTHER SERVICES.

...CURRENT IMPORTANT PROGRAMS
ARTHROPOD AND RODENT CONTROL EQUIPMENT.
PULSED WATER PRESSURE DEVICE FOR ARM AND HAND WASHING.
FIELD DENTAL EQUIPMENT.
HYPODERMIC INJECTION APPARATUS, VETERINARY MEDICINE, FIELD.
FIELD MEDICAL HUMAN BODY, DIAGNOSTIC, EXAMINATION, AND RECORDING SYSTEM.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ELECTRICAL/ELECTRONICS BRANCH IS EQUIPPED WITH HAND METERS, GENERATORS,
OSCILLOSCOPES, REGULATED POWER SOURCES AND RECORDERS. PHYSICAL TESTING
BRANCH IS EQUIPPED WITH AN INSTRON TESTING MACHINE AND ENVIRONMENTAL
CHAMBERS. PROTOTYPE FABRICATION FACILITY IS EQUIPPED WITH LATHES, MILLING MACHINES, SURFACE GRINDERS, SHEARS, POWER BRAKE, POWER ROLLER, SPOT
WELDERS, FOUNDRY, HELIARC AND GAS WELDING EQUIPMENT, HEATING, TREATING
OVEN, PAINT OVEN, FABRIC SEWING MACHINE, PLASTIC FORMING EQUIPMENT,
CARPENTRY AND PATTERN MODEL MAKING TOOLS.

INSTALLATION MEDICAL RESEARCH AND NUTRITION LAB, FGH

DENVER, CO.

C.O. COL JOHN E. CANHAM

| PROGRAM | PROGRAM DA | TA BY FISC | AL YEAR (1 | | \$) |
|--|----------------|-------------|------------|--------------|------|
| · | (AC | CTUAL) | (ACT + E | ST) | |
| TOTAL RDT&E | | 2.426 | 2. | .583 | |
| TOTAL PROCUREME | ENT | 0.000 | 0 | .000 | |
| TOTAL OEM | | 0.000 | 0 | .000 | |
| TOTAL OTHER | | 1.106 | 1 | -216 | |
| TOTAL ANNUAL LA | AB | 3.532 | 3 | .799 | |
| 707 44 7 44/046 <i>7</i> | | 2 520 | 2 | 700 | |
| TOTAL INHOUSE | | 3.532 | _ | . 799 | |
| TOTAL INHOUSE | | 2.426 | | -583 | |
| ANNUAL OPERATIO | NG COST | 0.559 | 0 | •592 | |
| | PERSONNEL DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | TOTAL | | TAL | NON- |
| | STRENGTH | PHOS | P | ROF | PROF |
| MILITARY | 119 | 30 | | 69 | 50 |
| CIVILIAN | 99 | 12 | | 45 | 54 |
| TOTAL | 218 | 42 | 1 | 14 | 104 |
| | SDACE | AND PROPERT | • | | |
| | SPACE I | AND PROPERT | | | |

ACRES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

2 83.663 5.138 19.087 107.888 5.079 3.375

DETERMINE THE ADEQUACY OF TROOPS DIET IN ALL ENVIRONMENTS AND RECOMMEND NUTRITIONAL MEASURES FOR OPTIMUM PERFORMANCE. CONDUCT BASIC/APPLIED RESEARCH ON MEDICAL/SURGICAL AND NUTRITIONAL PROBLEMS, COMPUTER TECHNIQUES IN BIO-MEDICAL AREAS, FOOD HYGIENE, AND PHYSIOLOGY OF EXERCISE AND FAT.

...CURRENT IMPORTANT PROGRAMS
NUTRITIONAL AND METABOLIC ADAPTATION AND INTERRELATIONSHIPS.
PERIPHERAL BLOOD FLOW STUDIES FOLLOWING SURGICAL INTERVENTION.
BIOCHEMICAL FACTORS INFLUENCING PHYSIOLOGICAL FUNCTIONING.
APPLIED NUTRITION STUDIES OF MILITARY POPULATIONS.
NUTRITIONAL ASPECTS OF MILITARY PERSONNEL AND MILITARY DOG PERFORMANCE.

HUMAN METABLIC WARD WITH TEMP AND HUMID CONTROL RM, GERM -FREE ANIMALS, ACOUSTIC PHYSIO PERF, ELECTRON MICROSCOPY, HIGH ALT LAB AT PIKES PEAK, ENVIRON TEST CHAMBER, RCA 301-355 ADPS, AUTO ANALYZERS AND RECORDERS INCLUDING AUTO BETA AND GAMMA COUNTERS, SHADOW SHIELD WHOLE BODY COUNTER, AND MASS SPECTROMETER. RSCH INCLUDES NUTR SURVEYS AND RATION TESTING, BIOMED CMPT RSCH, INFLUENCE OF HIGH TERRESTRIAL ALT ON PHYSIO-PSYCHO PERF, BODY COMPOSITION, METABOLISM AND MODIFYING FACTORS, BASIC/APPLIED STUDIES OF TRACE MINERAL METABOLISM, NUTRIENT ROR AND INTERRELATIONSHIP, METABOLIC RESPONSE OF MAN TO NUTR AND DISEASE, EXPER SURG, COMPARATIVE PATHOLOGY OF STRESS IN ENVIRON AND OF NUTR, PHYSIO AND BIOCHEM STUDIES OF MUSCLE METABOLISM, EXER AND FATIGUE IN MAN AND MILITARY DOG.

Book and the state of the state

C.O. COL FRANK R. CAMP

| | PRO | GRAM DATA | A BY FISO | CAL YEAR (| MILLION | \$} | |
|---------------|-------------|-----------|-----------|------------|---------|------|----------|
| PROGRAM | | 1 | 972 | 197 | 3 | | |
| | | (ACT | UAL) | (ACT + E | ST) | | |
| TOTAL ROTEE | | | 1.754 | 1 | -680 | | |
| TOTAL PROCURI | EMENT | | 0.000 | C | -000 | | |
| TOTAL OGM | | | 0.794 | 0 | .613 | | |
| TOTAL OTHER | | | 0.707 | C | .788 | | |
| TOTAL ANNUAL | LAB | | 3.255 | 3 | .081 | | |
| TOTAL INHOUSE | • | | 3.255 | 3 | -081 | | |
| TOTAL INHOUSE | | | 1.754 | _ | -680 | | |
| ANNUAL OPERAT | FING COST | | 1.187 | 1 | -014 | | |
| | PERSONNE | L CATA | (END OF | FY 1972) | | | |
| PERSONNEL | AUTHORIZED | | TOTAL | | TAL | | NON- |
| | STRENGTH | | PHDS | F | ROF | | PROF |
| MILITARY | 119 | | 17 | | 98 | | 21 |
| CIVILIAN | 132 | | 14 | | 36 | | 96 |
| TOTAL | 251 | | 31 | 1 | .34 | | 117 |
| | | SPACE AN | D PROPER | TY | | | |
| ACRES | SPACE (THOU | | | | | | LION \$) |
| | L AB | | OTHER | | | PROP | |
| 20 | 88-025 | 5-368 | 34-734 | 128-12 | 27 0 | 280 | 3-072 |

...MISSION
CONDUCT RESEARCH IN SENSORY PSYCHOPHYSIOLOGY. CONDUCT RESEARCH IN
BIOLOGIC EFFECTS OF LASER RADIATION. CONDUCT RESEARCH IN MILITARY BLOOD
BANKING. OPERATE BLOOD DONOR CENTER AND CONDUCT A TRAINING PROGRAM IN
IMMUNOHEMATOLOGY.

...CURRENT IMPORTANT PROGRAMS
MILITARY BLOOD BANKING METHODOLOGY AND EQUIPMENT. MILITARY BLOOD BANKING- EVALUATION OF CHANGES OF BLOOD DURING STORAGE. MILITARY PERFORMANCE- PSYCHOPHYSIOLOGY OF VISION. MILITARY PERFORMANCE- TRAUMATIC
ORIGINS OF HEARING LOSS. LASER EFFECTS UPON VISUAL PERFORMANCE.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PROCESSES 500 UNITS OF WHOLE BLOOD AND COMPONENTS PER WEEK. PERFORMS
AUTOMATED BLOOD GROUPING FOR NEW INDUCTEES. PROVIDES A LARGE SUPPLY OF
FROZEN BLOOD AND COMPONENTS TO DOD HOSPITALS. PERFORMS CERTAIN SPECIALIZED TESTS THAT CAN NOT BE PERFORMED BY MEDDAC. ANECHOIC CHAMBER FOR
SPECIALIZED AUDIO TESTS. HOLDING CAPABILITY FOR UP TO 100 PRIMATES.
ELECTRON MICROSCOPY CAPABILITY. CONDUCT RESEARCH IN SENSORY PSYCHOPHYSIOLOGY AND BIOLOGIC EFFECTS OF LASER RADIATION. CONDUCT RESEARCH IN
MILITARY BLOOD BANKING. CONDUCT TRAINING PROGRAM IN IMMUNUHEMATOLOGY.
CONDUCT ENLISTED PLOOD BANKING COURSE 311-1.

INSTALLATION MEDICAL RESEARCH UNIT

C.O. CUL FRANCIS C. CADIGAN

| PROGRAM | PROGRAM DATA BY FISCAL 1972 | YEAR (MILLION \$) 1973 |
|-----------------------|--------------------------------|---------------------------|
| | | CT + EST) |
| TOTAL RDT&E | 0.224 | 0.225 |
| TOTAL PROCUREMENT | 0.000 | 0.000 |
| TOTAL D&M | 0.000 | 0.000 |
| TOTAL OTHER | 0.077 | 0.083 |
| TOTAL ANNUAL LAB | 0.301 | 0.308 |
| TOTAL INHOUSE | 0.301 | 0.308 |
| TOTAL INHOUSE ROTEE | 0.224 | 0.225 |
| ANNUAL OPERATING COST | 0.000 | 0.000 |

| | PERSONNEL DATA | (END OF FY | 1972) | |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 6 | 5 | 7 | 1 |
| CIVILIAN | 0 | 0 | 0 | C |
| TOTAL | 6 | 5 | 7 | 1 |

| | | | PROPERTY | | | |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | T) | COST (MILL | ION \$) |
| | L AB | ADMIN | OTHER | TOT AL | REAL PROP | EQUIP |
| 15 | 7.000 | 0.900 | 0.000 | 7.900 | 0.100 | 0.222 |

TO FIND A DRUG OR NATURAL FACTOR WHICH BLOCKS ENDOTOXIC FEVER.
TO STUDY INFECTIOUS DISEASES OF POTENTIAL MILITARY IMPORTANCE IN EQUATORIAL ASIA.

-..CURRENT IMPORTANT PROGRAMS
STUDY SCRUB TYPHUS TRANSMISSION IN VIRGIN FORESTS.
EVALUATE SUBHUMAN PRIMATES FOR HUMAN MALARIA HOSTS.
DETERMINE TRANSOVARIAL TRANSMISSION RATE OF RICKETTSIA.
STUDY DIARRAHEA IN ABORIGINAL FOREST DWELLERS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONTINUED RESEARCH EFFORTS ALONG PRESENT LINES WITHIN THE SCOPE OF
RESEARCH ACTIVITIES, TO PROVIDE DIAGNOSTIC LABORATORY CONSULTATION FOR
MALAYSIAN CIVILIAN AND MILITARY MEDICAL SERVICES AND FOR COMMONWEALTH
MILITARY MEDICAL SERVICES. LABORATORY SPACE AND ANIMAL-REARING FACILITIES ARE PROVIDED BY THE INSTITUTE FOR MEDICAL RESEARCH, KUALA LUMPUR,
MALAYSIA.

C.O. LTC JAMES C. BURKE

| PROGRAM DATA BY FISCAL YEAR (MILL | ION \$) |
|-----------------------------------|--|
| 1972 1973 | |
| (ACTUAL) (ACT + EST) | |
| 0.191 0.193 | |
| 0.000 0.000 | |
| 0.000 0.000 | |
| 0.126 0.123 | |
| 0.317 0.316 | |
| 0.317 0.316 | |
| 0.191 0.1.93 | |
| 0.090 0.090 | |
| | (ACTUAL) (ACT + EST) 0.191 0.193 0.000 0.000 0.000 0.000 0.126 0.123 0.317 0.316 0.317 0.316 0.191 0.193 |

| | PERSONNEL DATA | (END OF FY | 1972) | |
|-----------|----------------|------------|--------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL. | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 9 | 2 | 5 | 4 |
| CIVILIAN | 8 | 0 | 0 | 8 |
| TOTAL | 17 | 2 | 5 | 12 |

| | | SPACE AND | PROPERTY | | | |
|-------|------------|-----------|------------|-------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | ET) | COST (MILL | ION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 0 | 5.000 | 0.600 | 0.000 | 5.600 | 0.000 | 0.061 |

...MISSION
IN CONJUNCTION WITH OTHER U.S. GOVERNMENT AGENCIES, CONDUCTS RESEARCH
ON MEDICAL AND ENVIRONMENTAL PROBLEMS OF MILITARY IMPORTANCE IN CENTRAL
AMERICA, SOUTH AMERICA AND PANAMA.

...CURRENT IMPORTANT PROGRAMS
PREVALENCE AND DISTRIBUTION OF PARASITIC DISEASE IN LATIN AMERICA.
PATHOGENESIS OF PARASITIC INFECTIONS.
BIONOMICS OF PHLEBOTOMUS FLIES.
EPIDEMIOLOGY AND IMMUNOLOGY OF TROPICAL VIRUSES.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DIRECT AND INDIRECT ISOLATION AND IDENTIFICATION OF PARASITIC ORGANISMS
AND THEIR VECTORS IN CENTRAL AND SOUTH AMERICA. LABORATORY SPACE ADEQUATE FOR THE SCIENTIFIC DISCIPLINES OF ENTOMOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY. SPECIAL EQUIPMENT AND FACILITIES TO SUPPORT THESE
DISCIPLINES INCLUDE FLUORESCENT MICROSCOPE, AUTO-TECHNICIAN, CRYPSTOTAT,
PHOTOMICROGRAPHY, LABORATORY ANIMAL QUARTERS, TISSUE CULTURE LINES,
LIQUID NITROGEN PLANT AND ACCESS TO DATA PROCESSING EQUIPMENT.

REDSTONE ARSENAL, AL.

INSTALLATION MISSILE RES., DEV. AND ENGINEERING LAB

C.D. MG EDWIN I. DONLEY DIR. DR. JOHN L. MCDANIEL

| PROGRAM | PROGRAM DATA BY FISCA 1972 (ACTUAL) | L YEAR (MILLION \$) 1973 (ACT + EST) |
|--|---|---|
| TOTAL RDT&E TOTAL PROCUREMENT TOTAL O&M TOTAL OTHER TOTAL ANNUAL LAB | 73.792 4.577 3.722 0.000 82.091 | 67.719 4.217 4.764 0.000 76.700 |
| TOTAL INHOUSE TOTAL INHOUSE RDT&E ANNUAL OPERATING COST | 37.154 29.964 13.774 | 38.797 30.516 14.600 |

| | PERSUNNEL CATA | (END OF PY | (1972) | |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 31 | 3 | 34 | 3 |
| CIVILIAN | 1196 | 59 | 680 | 516 |
| TOTAL | 1227 | 62 | 714 | 519 |

| | | SPACE AN | D PROPERTY | • | | |
|-------|------------|------------|------------|----------|------------|----------|
| ACRES | SPACE (THE | JUSANDS OF | SQUARE FE | ET) | COST (MILI | LION \$} |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 11000 | 1168.000 | 262.000 | 408.000 | 1838.000 | 23.178 | 35.294 |

PLAN & DIRECT MATERIEL DEVELOPMENT PROGRAMS & PROJECTS NOT SELECTED FOR PROJECT OR COMMODITY MGMT. MANAGE BASIC & APPLIED RESEARCH PROJECTS. INI TIATE & PERFORM RESEARCH & COMPONENT DEVELOPMENT TO GENERATE NEW TECHNOL OGY & PERFORM FEASIBILITY & DESIGN STUDIES FOR FUTURE WPN SYS.

...CURRENT IMPORTANT PROGRAMS
ADVANCED LASER DEVELOPMENT
MISSILE TECHNOLOGY-SYSTEMS DEVELOPMENT
HIGH ENERGY LASER RESEARCH
HELIBORNE, LASER, FIRE, FORGET &HELLFIRE&
TERMINAL HOMING SYSTEM

PERFORM LONG RANGE TECH PLANNING. DESIGN, DEV AND FABRICATE PROTOTYPE MS L SYS. TECH EVALUATE & SUPV R&D CONTR PROPOSALS & EFFORTS. PLAN & CONDUCT ENGR DESIGN VESTS. OPERATE ADV SIMULATION FACILITY, AIGMT CTR, ARMY ROCKET PROP & TECH & MGMT CTR. SERVE AS AMC LEAD LAB FOR G&C/ TERM HOMING & HI ENERGY LASERS. FACILITIES-- ADV SIMULATION FAC WITH A CENTRAL COMP CM PLX & 4 SIMULATORS & INFRARED SYS, ELECTROOPTICAL SYS, RF SYS, FLIGHT MOTIONS. PLASMA JET FAC, PLASMA DRIVEN SHROUD WIND TUNNEL, 2 MEV VAN DE GRAFF ACCELORATOR. LASER TEST RANGE, X-RAY DIFFRACTOMETER & SPECTROGRAPH, PROPELLANT EVAL FAC, HYBRID SIM FAC WITH RF ANECHOIC CHAMBER & TRANSMITTER SPECTRAL ANALYZER, RADIATION HOMING MSL TEST BED FAC, CLEAN ROGM COMPLEX, STATIC TEST FAC, FLIGHT & TRACK TEST FAC, ENVRMT TEST LAB. MCMORROW LABORATORIES WITH 356,400 SQ FT & COMPUTERS & EQUIP VALUED AT 17M.

C.O. COL BENNET L. LEWIS TECH. DIR. WILLIAM B. TAYLOR

| | PROG | | | YEAR (MI | LLION \$) | |
|---------------|--------------|--------------|----------|-----------|-----------|-----------|
| PROGRAM | | 1972 | | 1973 | | |
| | | (ACTUAL) | | ACT + EST |) | |
| TOTAL RDT&E | | 44. | 145 | 42.7 | 14 | |
| TOTAL PROCURE | MENT | 36.4 | +89 | 31.7 | 54 | |
| TOTAL OEM | | 10.4 | 137 | 9.5 | 78 | |
| TOTAL OTHER | | 0.2 | 299 | 0.3 | 00 | |
| TOTAL ANNUAL | LAB | 91. | 70 | 84.3 | 46 | |
| TOTAL INHOUSE | | 27.4 | 406 | 31.2 | 15 | |
| TOTAL INHOUSE | | 18. | 355 | 23.1 | 68 | |
| ANNUAL OPERAT | ING COST | 6. | 789 | 6.6 | 50 | |
| | PERSONNEL | | OF FY | 1972) | | |
| PERSONNEL | AUTHORIZED | | TAL | ATOTA | L | NON- |
| | STRENGTH | PI | HDS | PRO | F | PROF |
| HILITARY | 54 | | 4 | 34 | | 20 |
| CIVILIAN | 1370 | | 23 | 596 | | 774 |
| TOTAL | 1424 | | 27 | 630 | | 794 |
| | • | SPACE AND P | ROPERTY | | | |
| ACRES | SPACE (THOUS | SANDS OF SQL | JARE FEE | T) | COST (MI | LLICN \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 1060 | 611.710 14 | 47.480 15 | 8-648 | 917-838 | 50.215 | 27.018 |

---MISSION
BASIC AND APP RSCH DES DEV AND ENGRG TEST ON ASGND EQUIP&RAIL-MARINE&
AMPHIB BDG&ASLT STREAM CROSS&ELEC PWR&INDUS ENGS&CONSTR EQUIP&FIREFIGHTG
HTG-AC&WASTE DISPOSAL&WATER PURIF&COUNTERMINE&BARRIER&CAMOUFLAGE&FUELS
HDLG&MHE&DEMLS&PHYS SECURITY&ENGR SPT TO MSC QUAN PROC AND MAINT ACTIVIT

---CURRENT IMPORTANT PROGRAMS
EARTHMOVING FAMILY OF ENGR CONSTRUCTION EQUIPMENT &FAMECE&
ELEC PWR GEN INCL LIQ FUEL CELLS RANKING CYC PLANTS TURBOALTERNATORS
MINE NEUTRALIZATION MINE DETECTION COUNTERMINE SYSTEMS
LIGHTWEIGHT FLOATING BRIDGE &RIBBON BRIDGE&
CAMOUFLAGE TECHNIQUES AND MATERIEL

OFFICES AND LABORATORIES WITH SUPPORTING DATA PROCESSING&ENGINEERING AND INSTRUMENTATION SERVICES&SHOPS, TEST COURSES AND TEST LANES. EQUIPMENT AND CAPABILITIES INCLUDE SEMI AUTOMATED FUEL CELL AND ELECTRIC POWER PLANT TEST LABS&AIRCONDITIONING AND HTG LAB&ANECHOIC MICROWAVE FACILITY&ANECHOIC CHAMBER FOR ACQUISTIC HOMING STUDIES&ENERGY CONVERSION RESEARCH FACILITY&HIGH PRESSURE AIR COMPRESSORS&HYDRAULICALLY ACTUATED TEST FRAME FOR BRIDGES&SHOCK TEST TUBE SIMULATING HIGH EXPLOSIVE BLAST EFFECTS&POWER SYSTEMS SIMULATOR&OUTDOOR RAIN TEST SITE&FULL SCALE RAILCAR HUMP TEST FACILITY&LARGE AND SMALL TROPICAL TEMPERATURE AND HUMIDITY TEST CHAMBERS POL TEST AREA& MINE DETECTION TEST LANES&WATER TREATMENT RESEARCH LAB& AND A MATERIALS RESEARCH LABORATORY.

त्र व वरका <u>क्रमण</u>कार हा

C.O. BG JOHN G. MCWHORTER TECH. DIR. DALE H. SIELING

| 22.0C2.4M | PR | | A BY FISC | AL YEAR (MI) | LLION \$) | |
|---------------|------------|-----------|-----------|--------------|-----------|----------|
| PROGRAM | | _ | UAL) | (ACT + EST | 3 | |
| TOTAL ROTEE | | 1 70 1 | 23.207 | 21.9 | | |
| TOTAL PROCURE | MENT | | 6.435 | 0.8 | | |
| TOTAL DAM | | | 9.019 | 8.9 | · = | |
| TOTAL OTHER | | | 1.620 | 1.7 | | |
| TOTAL ANNUAL | 1 40 | | 40.281 | 33.3 | | |
| IDIAL MINUNE | LAD | | 40.201 | 23 43 | | |
| TOTAL INHOUSE | : | | 25.684 | 26.9 | 95 | |
| TOTAL INHOUSE | | | 14.968 | 16.6 | | |
| ANNUAL OPERAT | | | 5.412 | 5.3 | | |
| | PERSONN | EL DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOTAL | L | NON- |
| | STRENGTH | | PHDS | PRO | - | PROF |
| MILITARY | 132 | - | 11 | 62 | | 70 |
| CIVILIAN | 1236 | | 90 | 479 | | 757 |
| TOTAL | 1368 | | 101 | 541 | | 827 |
| | | | | | | |
| | | SPACE AN | D PROPERT | Υ | | |
| ACRES | SPACE (THO | USANDS OF | SQUARE F | EET) | COST (MIL | LION \$) |
| | LAB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 3087 | 525.000 | 65.900 | 274-600 | 865.500 | 40.152 | 12.406 |

...MISSION
ACCOM ASG R-D IN THE PHYS AND BIOL SCI AND ENG TO MEET MIL RQR IN THE COMMODITY AREAS OF TEX CLO BODY ARMOR ORG MATLS INSECT AND FUNG SUBS CNTRS FOOD SVC EQUIP FLD SPT EQUIP TENT AND EQUIP AND AIR DEL EQUIP. IN DESIG CHOTY AREAS PROV TECH AND ENG SPT IN CONNEC W/ACCOM OF AE AND STD.

...CURRENT IMPORTANT PROGRAMS
POLLUTION ABATEMENT STUDIES
ANAL MIL FOOD SVC SYS TO EST MODERN METH OF DETERMINING DAILY FOOD ALLOW
PERSONNEL ARMOR PROGRAM
FLEXIBLE PACKAGING SYSTEM FOR HEAT PROCESSED FOODS
WHOLESOMENESS OF RADAPPERTIZED BEEF

...FUNCTIONS/EQUIPMENT/CAPABILITIES
COBALT 60 IRRAD FACILITY DESIGNED FOR MAX FLEXIBILITY IN FOOD PROCESSING
BACTERIOLOGY LAB EQUIP FOR INVESTIGATIONS OF PATHOGENIC MICRODRGANISMS
FLAME PROTECTION LAB AND FACILITY INCLUDING AN OUTDOOR FLAME PIT
HIGH RESOLUTION MASS SPECTROMETER FOR ANALYSIS OF VOLATILE COMPOUNDS
FOOD PROCESSING FAC FOR CONTROLLED PREPROCESSING AND PROC BY SEV TECHNIQ
LAB SUBSONIC WIND TUNNEL CAPABLE OF VELOCITIES UP TO 110 FEET PER SEC
HEAT TRANSFER LAB TO STUDY HEAT AND MASS TRANSPORT CHAR OF FABRICS
ELECTRON LINEAR ACCELERATOR DESIGNED FOR HIGH POWER OUTPUT IN FOOD PROV
DROP TEST FAC CONS OF 40 TON CAPACITY TRACKED CRANE AND A 50 FT BOOM
DYEING AND FINISHING LAB FOR CONDUCTING STUDIES OF TEXTILES
FEBETRON MACHINE USED AS A RADIA SOURCE FOR PULSE RADIOLYSIS STUDIES
RAIN ROOM DESIGNED TO DUPLICATE RAINFALL CORRESPONDING TO NATURAL RAIN

DIR. BENJAMIN GOLDBERG DEP. DIR. DONALD J. LOOFT

| | PR | JGKAM DAT | A BA FIZCI | AL YEAR (MI | frion 2) | |
|---------------|------------|-----------|-----------------|-------------|-----------|-----------|
| PROGRAM | | 1 | 97 2 | 1973 | | |
| | | E ACT | UAL) | (ACT + EST |) | |
| TOTAL ROTEE | | | 32-654 | 27.1 | 61 | |
| TOTAL PROCURE | MENT | | 0.000 | 2.6 | 15 | |
| P30 JATOT | | | 0.000 | 0.0 | 00 | |
| TOTAL OTHER | | | 0.000 | 0.0 | 00 | |
| TOTAL ANNUAL | LAB | : | 32.654 | 29.7 | 76 | |
| TOTAL INHOUSE | ļ. | | 15.727 | 12.2 | 94 | |
| TOTAL INHOUSE | RDTEE | | 15.727 | 12.2 | 94 | |
| ANNUAL OPERAT | ING COST | | 6-814 | 7.2 | 00 | |
| | PERSONN | EL DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOTA | L | NON- |
| | STRENGTH | | PHDS | PRO | F | PROF |
| MILITARY | 51 | | 0 | 35 | | 16 |
| CIVILIAN | 409 | | 34 | 219 | | 190 |
| TOTAL | 460 | | 34 | 254 | • | 206 |
| | | SPACE AN | D PROPERT | Y | | |
| ACRES | SPACE (THO | USANDS OF | SQUARE F | EEY) | COST (MI | LLION \$) |
| | L AB | ADMIN | DTHER | TOTAL | REAL PROP | EQUIP |
| 15 | 73-625 | 29_883 | 67-131 | 170-639 | 43-961 | 45,000 |

DODGDAM DATA BY ETECAL YEAD ANTILTON 43

E..MISSION
NVL IS RESPONSIBLE FOR PROVICING THE ARMY WITH A NIGHT-VISION
CAPABILITY EQUAL TO THAT OF DAYLIGHT. AS SUCH, NVL HAS BEEN DESIGNATED
BY USAMC AS LEAD LABORATORY TO PROVIDE CENTRALIZED TECHNICAL DIRECTION
IN THE MANAGEMENT OF THE USAMC NIGHT VISION TECHNOLOGICAL BASE.

...CURRENT IMPORTANT PROGRAMS
LOW LEVEL NIGHT OPERATIONS
FAR INFRARED TECHNOLOGY
TURRET INTEGRATED NIGHT THERMAL SIGHT
THERMAL VIEWER FOR UNIVERSAL APPLICATIONS
COMMON TOW/DRAGON NIGHT SIGHT

...FUNCTIONS/EQUIPMENT/CAPABILITIES
NVL IS RESPONSIBLE FOR PROVIDING A NIGHT CAPABILITY TO THE ARMY. IN
KEEPING WITH THIS MISSION OBJECTIVE, THE NIGHT VISION PROGRAM IS BEING
CARRIED OUT IN FOUR MAJOR SYSTEM APPLICATION AREAS. GROUND-DEVICES FOR
INDIVIDUAL SOLDIERS AND PATROLS/GROUND VEHICLES-WHEELED AND TRACKED VEHICLES/AIRBORNE-FOR OBSERVER. GUNNER AND PILOT/AND MISSILE SYSTEMS. THE
SYSTEMS DEV PROGRAM BOTH FOR THE SHORT RANGE AND LONG RANGE GOALS IS DEPENDENT ON AN ACTIVE AND INNOVATIVE NV TECHNOLOGY BASE CONSISTING OF THE
FOLLOWING DISCIPLINES-IMAGE INTENSIFICATION, FAR INFRARED, RADIATION
SOURCES AND VISIONS. THE DOMINANT EFFORT AT THIS TIME IS IN FAR-INFRARED
TECHNOLOGY WHICH OFFERS GREAT POTENTIAL FOR HIGH PERFORMANCE SYSTEMS BUT
WHICH ARE COMPLEX AND COSTLY. THEREFORE, THE PRIME TECHNOLOGICAL EFFORT
IS TO REDUCE COST AND COMPLEXITY.

C.O. COL G.M. MONTGOMERY TECH. DIR. H.W. PAINTER

| | PR | OGRAM DA | TA BY FISC | CAL YEAR (MI | LLION \$} | |
|---------------|------------|-----------|------------|--------------|-----------|----------|
| PROGRAM | | | 1972 | 1973 | | |
| | | (AC | TUAL) | (ACT + EST |) | |
| TOTAL RDT&E | | | 99.200 | 83.8 | 00 | |
| TOTAL PROCURE | MENT | | 22.400 | 19.3 | 00 | |
| TOTAL OEM | | | 8.300 | 9.3 | 00 | |
| TOTAL OTHER | | | 0.000 | 0.0 | 00 | |
| TOTAL ANNUAL | LAB | | 129.900 | 112.4 | 00 | |
| TOTAL INHOUSE | | | 86.000 | 70.2 | 00 | |
| TOTAL INHOUSE | RDTEE | | 55.300 | 41.6 | 00 | |
| ANNUAL OPERAT | ING COST | | 5.900 | 6.2 | 00 | |
| | PERSONN | EL DATA | (END OF | FY 1972) | | |
| PERSONNEL | AUTHORIZED | } | TOTAL | TOTA | Ĺ | NON- |
| | STRENGTH | l | PHDS | PRO | F | PROF |
| MILITARY | 68 | | 1 | 51 | | 17 |
| CIVILIAN | 2676 | | 62 | 1889 | | 787 |
| TOT AL | 2744 | | 63 | 1940 | | 804 |
| | | SPACE A | ND PROPER | TY | | |
| ACRES | SPACE (THO | USANDS D | F SQUARE | FEET) | COST (MIL | LION \$) |
| | LAB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 6495 | 594.642 | 668 . 245 | 2580.998 | 3843.885 | 72.600 | 45.000 |

...MISSION

CEN FOR LIFE CYCLE FUNC FR BASIC AND APPLIED RSCH THRU DEVMT AND ENGRG OF NUC AND CONV MUNS SUCH AS MINES, GRENS, RKT AND MSLE WHDS, PROJS, FUZES, EXPLOS, PYRO, PROP, MATS, PHYS AND ENGRG SCIENCE, DIGITAL ANALOG COMPTG. PROCS ALL NUC AND ASG CONV MUNS. OPS DOD PLASTEC.

---CURRENT IMPORTANT PROGRAMS
PROJECTILE 8 INCH XM673 ENG DEV
PROJECTILE 8 INCH XM711 ADVANCED DEV
FLUIDIC DPATION KIT ADVANCED DEV
TANK CANNON AMMUNITION EXPLORATORY DEV
P\ROTECHNIC EXPLORATORY DEV

***FUNCTIONS/EQUIPMENT/CAPABILITIES
NUC WPNS PROTOTYPE FAB AND ASSY, AND EXPLOS AND PROP PLT PLANTS PROV
COMPL INTRGED FAC FOR ASSY, INSP AND TEST OF AK AND CONV MUNS AND COMPS
AND THE MFG AND PROCING OF X EXPLOS AND PROP COMP. THE EXPLOS, PYRO,
PROP, MATLS AND QA LABS HAVE UNUSUAL EQUIP FOR RSCH, RELIABILITY AND QA
SUCH AS BETATRON, DYNAMITRON, HIGH SPEED PHOTO AND SHOCK LOAD FAC, HIGH
ALT TEST CHAMBERS, ELECTROMAGNETIC RADIATION INST ETC. THE DEVMT AND
ENVIRONMENTAL TEST AND EVAL FAC HAVE MAJOR CPBLTY AS STATIC AND DYNAMIC
TEST RGS, DROP FOWERS, DUD RECOVY AND DISASSEMBLY, RF VULNERABILITY
COMPL ENVIRONMENTAL SIM, TARGET EFF ETC. OTHER EQUIP INCL VIBRATORS
FOR LOADS TO 2000 LB, STATIC RKT TEST RG, 2540 TON HYDROSTATIC PRESS,
CMPT TAPE CON MFG EQUIP, VARIETY OF FUZE EVAL EQUIP, CLOSED CIRCUIT TV,
HIGH ACCEL SLED TRACK.

EQUIP

6.578

DIR. EDWARD J. FISTER

136

| | | PROGRAM DATA BY F | ISCAL YEAR (MILLION | \$) | | |
|--------------------|----------------|-------------------|---------------------|--------------|--|--|
| PROGRA | M. | 1972 | 1973 | | | |
| | | (ACTUAL) | (ACT + EST) | | | |
| TOTAL | RDT&E | 11.319 | 11.950 | | | |
| TOTAL | PROCUR EMENT | 0.100 | 0.000 | | | |
| TOTAL | Mao | 0.000 | 0.000 | | | |
| TOTAL | OTHER | 0.000 | 0.000 | | | |
| TOTAL | ANNUAL LAB | 11-419 | 11.950 | | | |
| TOTAL | INHOUSE | 11.290 | 11.950 | | | |
| | INHOUSE ROTGE | 11,290 | | | | |
| | OPERATING COST | 3.903 | | | | |
| | PERSO | NNEL DATA (END O | F FY 1972) | | | |
| PERSON | NEL AUTHORIZ | | | NON- | | |
| | STRENG | | PROF | PROF | | |
| MILITA | | .2 | 2 | 10 | | |
| CIVIL | IAN 65 | 4 0 | 101 | 553 | | |
| TOTAL | 66 | 66 0 | 103 | 563 | | |
| SPACE AND PROPERTY | | | | | | |
| ACRE | S SPACE (T | HOUSANDS OF SQUAR | | (MILLION \$) | | |

OTHER

0.315

TOTAL REAL PROP

8-401

53.794

...MISSION
COMPOSITE MATERIALS
ANTENNA MASTS AND MECHANICAL STRUCTURES
VEHICULAR AND MARINECRAFT INSTALLATIONS
COMPUTER AIDED DESIGN TECHNIQUES

L AB

53.470

...CURRENT IMPORTANT PROGRAMS
MECHANICAL ENGINEERING - AIRBORNE EQUIPMENT
MECHANICAL ENGINEERING - GROUND EQUIPMENT
CRYOGENICS
ENVIRONMENTAL EQUIPMENT AND SHELTER INSTALLATIONS
COMPUTER AIDED DESIGN ENGINEERING AND MANUFACTURING

ADMIN

0.009

---FUNCTIONS/EQUIPMENT/CAPABILITIES
ELECTROMAGNETIC CAPABILITY FOR RFI
ENVIRONMENTAL CONTROL-PHYSICAL AND MECHANICAL
AIRCRAFT VIBRATION MEASUREMENTS
COMPUTER AIDED DESIGN FABRICATION
MODEL SHOP FABRICATION-ALL CRAFTS
TEST AND MEASURING EQUIPMENT CALIBRATION AND REPAIRS
MATHEMATICAL COMPUTATIONS AND STATISTICS

THE COLD SECTION SECTI

INSTALLATION RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE NATICK, MASS.

C.O. COL. LEERDY G. JONES TECH. DIR. DR. DAVID E. BASS

173

TOT AL

| PROGRAM | | 1972 | L YEAR (MILLION 1973 | \$) |
|---------------------|---------------|------------|----------------------|------|
| | { AC | | (ACT + EST) | |
| TOTAL RDT&E | | 2.600 | 2.772 | |
| TOTAL PROCUREMENT | | 0.000 | 0.000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.751 | 0.904 | |
| TOTAL ANNUAL LAB | | 3.351 | 3.676 | |
| TOTAL INHOUSE | | 3.351 | 3.676 | |
| TOTAL INHOUSE ROTGE | | 2.600 | 2.772 | |
| ANNUAL OPERATING CO | ST | 1.032 | 1.070 | |
| P | ERSONNEL DATA | (END OF FY | 1972) | |
| PERSONNEL AUTHO | DRIZED | TOTAL | TOTAL | NON- |
| ST | RENGTH | PHDS | PROF | PROF |
| MILITARY | 71 | 18 | 55 | 16 |
| CIVILIAN | 102 | 20 | 45 | 53 |

| SPACE AND PROPERTY | | | | | | |
|--------------------|------------|----------|-----------|---------|------------|---------|
| ACRES | SPACE (THO | SANDS OF | SQUARE FE | ET) | CUST (MILL | ION \$) |
| | L AB | ADMIN | OTHER' | TOTAL | REAL PROP | EQUIP |
| 0 | 60,421 | 18.563 | 28.647 | 107.631 | 6.902 | 2.044 |

38

104

69

...MISSION
TO CONDUCT BASIC AND APPLIED RESEARCH TO DETERMINE HOW HEAT, COLD, HIGH
TEPRESTRIAL ELEVATION AND WORK AFFECT THE SOLDIERS LIFE PROCESSES,
PERFORMANCE AND HEALTH. ADVISE THE ARMY AND THE SCIENTIFIC COMMUNITY.

-..CURRENT IMPORTANT PROGRAMS
PREVENTION AND TREATMENT OF DISABILITIES DUE TO MILITARY OPERATIONS IN
HEAT, COLD, AND AT ALTITUDE. PREDICTION OF LIMITS OF MILITARY PERFORMANCE AS A FUNCTION OF ENVIRONMENT, CLOTHING AND EQUIPMENT. MEDICAL
PROBLEMS IN MILITARY ARCTIC OPERATIONS. BIOLOGICAL PROCESSES THAT LIMIT
HEAVY PHYSICAL WORK.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCT RESEARCH AND PROVIDE GUIDANCE TO DESIGNERS, ENGINEERS, TACTICIANS, PLANNERS AND PHYSICIANS ON MILITARY PERFORMANCE AND CASUALTY PREVENTION AND TREATMENT IN EXTREME CLIMATES AND ENGINEERED ENVIRONMENTS.
ADVISE ON HEALTH AND SAFETY IN MANEUVERS DURING HEAT, COLD OR HYPOXIC
STRESS. TREAT COLD CASUALTIES AT BASSETT ARMY HOSPITAL, ALASKA. IN
HUMAN AND ANIMAL RESEARCH, USE APPROXIMATELY 50 VOLUNTEER TEST SUBJECTS
AND EXTENSIVE CLIMATIC CHAMBERS OF NLABS PLUS MANY SMALLER CHAMBERS,
EXTENSIVE ANIMAL CARE FACILITIES, ELECTRON MICROSCOPE, UNDERWATER RESEARCH POOL, COPPER MANIKINS, AND DIVERSE EQUIPMENT FOR BIOCHEMICAL,
BIOPHYSICAL, MEDICAL, PHYSIOLOGICAL, PHARMACOLOGICAL, AND PSYCHOLOGICAL
MEASUREMENT.

INSTALLATION RESEARCH INSTITUTE OF INFECTIOUS DISEASES FT. DETRICK, MD.

C.O. COL DAN CROZIER TECH. DIR. DR. WILLIAM R. BEISEL

57

93.217

| | PROGRA | M DATA BY FISC | SAL YEAR (MILLIUN \$ |) |
|-----------------------|----------------|------------------------|----------------------|-------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 3.040 | 6.105 | |
| TOTAL PROCURE | MENT | 0.000 | 0.000 | |
| M3O JATOT | | 0.000 | 0.000 | |
| TOTAL OTHER | | 2.071 | 2.796 | |
| TOTAL ANNUAL | LAB | 5.111 | 8.901 | |
| TOTAL INHOUSE | | 5.111 | 8.901 | |
| TOTAL INHOUSE ROTGE | | 3.040 | 6.105 | |
| ANNUAL OPERATING COST | | 1.509 | 2.400 | |
| | PERSONNEL (| ATA (END OF I | FY 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 365 | 46 | 49 | 316 |
| CIVILIAN | 248 | 19 | 38 | 210 |
| TOTAL | 613 | 65 | 87 | 526 |
| | SPA | CE AND PROPER | TY | |
| ACRES | SPACE (THOUSA) | | | MILLION \$) |
| | | MIN OTHER | | OP EQUIP |
| | | · · - · · · | | |

...MISSION
STUDIES PATHOGENESIS, DIAGNOSIS, PROPHYLAXIS, TREATMENT, EPIDEMIOLOGY OF INFECTIOUS DISEASES, EMPHASIZING PROBLEMS OF MEDICAL DEFENSE AGANIST BW, NATURALLY OCCURRING INFECTIONS OF PECULIAR MILITARY IMPORTANCE AND MICRO-ORGANISMS WHICH REQUIRE SPECIAL CONTAINMENT FACILITIES.

198.731

305.767

17.818

3.100

13.819

...CURRENT IMPORTANT PROGRAMS
THE CREATION OF AN AEROBIOLOGY DIVISION ALLOWS FOR NEW STUDIES OF PATHOGENESIS OF AIRBORNE INFECTIOUS DISEASES. DEVELOPMENT OF RAPID AND
ACCURATE DIAGNOSTIC METHODS BEFORE APPEARANCE OF CLASSICAL SYMPTCMS OF
DISEASE. DEVELOPMENT OF NEW VACCINES AND TOXOIDS. DEVELOPMENT OF
METHODS FOR INFECTIOUS DISEASE MANAGEMENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
A UNIQUE COMPLEX OF RESEARCH LABORATORIES IS NOW FUNCTIONAL. THE 17
LABORATORY SUITES ARE USED FOR THE STUDY OF MICRO-ORGANISMS, INCLUDING
HIGHLY INFECTIOUS ONES WHICH REQUIRE SPECIAL CONTAINMENT. THESE LABORATORIES PERMIT MULTIDISCIPLINE-ORIENTED RESEARCH INCLUDING IMMUNDLOGY,
PATHOLOGY, PHYSIOLOGY, BIOCHEMISTRY, BIOPHYSICS, MOLECULAR BIOLOGY, AND
TISSUE CULTURE. THE BUILDING HAS CAPABILITIES FOR STUDY OF LARGE ANIMALS, PRIMATES AND CUSTOMA: / LABORATORY ANIMALS AS WELL AS HOSPITAL
FACILITIES FOR MEDICAL PATIENTS AND FOR RESEARCH STUDIES UTILIZING VOLUNTEERS. AEROBIOLOGY DIV HAS FACILITIES FOR EXTENSIVE AEROSOL INVESTIGATIONS INCLUDING 2 LARGE ENVIRONMENTALLY-CONTROLLED CHAMBERS, 6 LABORATORY SITES, AND FACILITIES FOR INFECTED ANIMALS. USAMRIID RESEARCH IS
SUPPORTED BY 2 COMPUTERS.

C.O. MG H.A. RASMUSSEN CHIEF SCIENTIST DR. C.M. HUDSON

| | PROGRAM DA | TA BY FISC. | AL YEAR (MILLION | \$ } |
|--------------|--------------------|-------------|------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | (AC | TUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 14.717 | 21.111 | |
| TOTAL PROCUR | EMENT | 2.100 | 2.807 | |
| TOTAL DEM | | 4.458 | 3.008 | |
| TOTAL OTHER | | 0.085 | 0.084 | |
| TOTAL ANNUAL | LAB | 21.360 | 27.010 | |
| TOTAL INHOUS | E | 13.666 | 14.173 | |
| TOTAL INHOUS | E RDT&E | 9.227 | 11.192 | |
| ANNUAL OPERA | TING COST | 6.321 | 7.089 | |
| | PERSONNEL DATA | (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 9 | 1 | 11 | 2 |
| CIVILIAN | 749 | 19 | 304 | 445 |
| TOTAL | 758 | 20 | 315 | 447 |
| | SPACE A | ND PROPERT | Υ | |
| ACRES | SPACE (THOUSANDS C | F SQUARE F | EET) COST | (MILLION \$) |
| | LAB ADMIN | OTHER | TOTAL REAL | PROP EQUIP |

..MISSION

180

CET WPN SYS, ARTY & INF WPNS, CREW SERVED WPNS MTD ON ANY TYP VEH, & INF , CONVL ARTY LANH DVC FOR BOTH CONVL SHL & H CAP BST RKT ARTY SHL, EXCL FREE RKT.GM.BAL MSL.TGT MSL & RELATED LANH & GSE.CLIPS LK & MAG FLR FOR CONVL AMMO, TK, SP ARTY & ASGD SPV, CIPOLA, RCL & MT, ELEV & TRAV MECH-

106-679

311.134

3.598

11.189

... CURRENT IMPORTANT PROGRAMS GUN LOW ALTITUDE AIR DEFENSE PROTOTYPE -GLAADS LARGE CALIBER SOFT RECOIL SYSTEM SQUAD AUTOMATIC WEAPON GUN AIR DEFENSE EFFECTIVENESS STUDY BEAM RIDER PROJECTILES FOR DIRECT FIRE SYSTEMS

103.617 100.838

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FAC CAPABILITIES-RNG FAC PERMIT FIRING ARTY XPN OF 105MM SIZE OR SMALLER USING INRT PJCTL AT O DEGREES EL INTO PRF BUTT AT 100 YDS DIST. WPN FIR AT EL USING DISINTEGRATING PUCTL LOADED W/WET SAND.RNG BLDG HSG INDOOR RNG-2 ARE 100 MIR-1 CLIMATIC CHMBR RNG 1000 IN W/CONT HMD TEMP OF -90/ PLUS 200 DEGREE F. 1 1000 IN XPN MT SIM RNG. ANY SA WPN THRU 40MM CAN BE FIRED.LATTER RNG 25 W. 20 H PERMITS FIRING FROM TK OR HLCPTR.ACCESS TO IBM 360/65 COMPUTATION CENTER. PROTOTYPE SHOP IN SUPPORT OF RDTE. MAJOR EQUIP- ILLUSTROMAT 1200. CMPTR GRPHS. MY INSTM SYS. VAR FLEXIBILITY GUN MT. PROTOTYPE HIGH-SPEED SCNG IR RADIOMETER SYS. HOLOGRAPHIC SYS. VAR ANGLE HECPTR MT. ALPHA LUBT TESTER MODEL LEWS. MOTION TABLE FOR SMALL TURRET STBLN TESTING. HYDR FLOW SIM-HYFLOS. SMALL TURRET FIRING FIXTURE. NON-FIRING AUTO AMMO LOADER FOR TANKS. THERM ENVIR SIM EQUIP FOR WPN SYS INSTALLATION RSCH INST FOR BEHAVIORAL AND SOCIAL SCIENCES WASHINGTON, D.C. C.O. COL RICHARD A. ROOTH TECH. DIR. DR. J.E. UHLANER

| | PROGRAM | DATA BY FISCA | AL YEAR (HILLION \$) |
|---------------|--------------|---------------|----------------------|
| PROGRAM | | 1972 | 1973 |
| | | (ACTUAL) | (ACT + EST) |
| TOTAL ROTGE | | 8.706 | 6.580 |
| TOTAL PROCURE | MENT | 0.000 | 0.000 |
| TOTAL OSM | | 0.000 | 0.000 |
| TOTAL OTHER | | 0.000 | 0.000 |
| TOTAL ANNUAL | LAB | 8.706 | 6.580 |
| TOTAL INHOUSE | • | 2.540 | 3.315 |
| TOTAL INHOUSE | = | 2.540 | 3.315 |
| ANNUAL OPERAT | | 0.392 | 0.909 |
| | PERSONNEL DA | TA (END OF F | Y 1972) |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL |
| | | | |

| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
|-----------|------------|-------|-------|------|
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 11 | 1 | 9 | 2 |
| CIVILIAN | 130 | 44 | 93 | 37 |
| TOTAL | 141 | 45 | 102 | 39 |

| | | SPACE AN | DPROPERTY | | | |
|-------|------------|-----------|------------|--------|------------|----------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | T) | COST (MILL | .ION \$} |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 0 | 25.435 | 9.742 | 1.823 | 37.000 | 0.000 | 1.999 |

...MISSION
RSCH AND DEV PRGMS IN BEH AND SOC SCI FOR DEPT ARMY IN IND TNG AND PERF
AND IN DRG SYS.PRGMS INCL RSCH: TO IMPRV TRNG AND TO INCR CAP OF SOL YO
RSLVE PERS-INTRPERS PROBS,TO IMPRV DISTR MNPWR, ENHANCE EFF OF GRPS IN
CMD-CNTRL, IMPRV PERF OF GRPS IN MIL SYS THRU ORG DEV, IMRRV UNIT LORSHP

***CURRENT IMPORTANT PROGRAMS
EVALUATE EFFECTS OF COUNSELING AND PREDICTUR TESTS ON DISCIPLINE RATES
NEW TECH TO EVAL OFCR LDRSHP POTENTIAL FOR KEY PERS MGT DECISNS IN OPMS
HUMAN PERFORMANCE EXPERIMENTATION IN TACTICAL NIGHT OPERATIONS
DETERMINE INFORMATION REQUIREMENTS FOR TACTICAL SITUATION MAP DISPLAYS
ASSESSMENT OF ARMY RACE RELATIONS PROGRAMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
LABORATORY FACILITIES SUPPORT SIX TECH AREAS: 1SYS INTEG AND CND-CNTRL2
TEAM PERF ENHANCEMENT3UNIT TRNG AND EDUC TECHNLGY4IND TNG AND MNPWR DEV
5LDRSHP PERF6SOC PROC.CENTRAL COMPUTER PROVIDES DATA PROCESSING & REAL
TIME INTERFACING WITH VARIETY OF EXP STATIONS SUPPORTING ALL TECH AREAS
.TWO FIELD UNITS PROVIDE HUM PERF EXP SUPPORT TO MASSTER PROG AND TO
TACT NT VISION PROG.RSCH UTIL TEAM ASSESES OPERATIONAL UTILIZATION OF
RSCH PRODUCTS AND PROVIDES GUIDANCE FOR NEW RSCH DIRECTION

577

580

CIVILIAN

TOTAL

C.O. MG J.E. PIEKLIK DIR. RD&E COL L.F. FELDER

989

1005

| | PROGRAM DATA BY | FISCAL YEAR (MILLI | ON \$) |
|-----------------------|------------------|--------------------|--------|
| PROGRAM | 1972 | 1973 | |
| | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTGE | 46.2 | 91 46.639 | |
| TOTAL PROCUREMENT | 26.6 | 04 41.667 | |
| TOTAL O&M | 5.0 | 26 5.945 | |
| TOTAL OTHER | 0.2 | 0.204 | |
| TOTAL ANNUAL LAB | 78.1 | 28 94.455 | |
| TOTAL INHOUSE | 27.5 | 51 27.016 | |
| TOTAL INHOUSE ROTEE | 16.6 | 59 15.439 | |
| ANNUAL OPERATING COST | 6.5 | 44 7.553 | |
| PERS | SONNEL DATA (END | OF FY 1972) | |
| PERSONNEL AUTHORI | | | NON- |
| STREM | - | _ | PROF |
| MILITARY | 16 | 0 19 | 3 |

| | | SPACE AND | PROPERTY | | | |
|-------|------------|-----------|------------|---------|------------|----------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | ET) | COST (MILI | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 1125 | 361.202 | 0.000 | 0.000 | 361.202 | 15.838 | 16.767 |

412

431

...MISSION
RESPONSIBLE FOR RESEARCH, CONCEPT, DESIGN, DEVELOPMENT, FABRECATION, ADVANCED PRODUCTION ENGINEERING, SUPPORT TO PRODUCTION, FOR PRESENT AND
FUTURE VEHICLES SYSTEMS AND SUB-SYSTEMS OF TANK-AUTOMOTIVE MATERIEL AND
ITS FUTURE SCIENCES

...CURRENT IMPORTANT PROGRAMS
AUTOMATIC TEST EQPT FOR INTERNAL COMBUSTION ENGINE POWERED MATERIAL
MID-RANGE AND LONG RANGE CONCEPT STUDIES ON FUTURE TRANSPORT VEHICLES
MID-RANGE AND LONG RANGE CONCEPT STUDIES ON FUTURE TACTICAL VEHICLES
HYBRID ENGINE DEVELOPMENT
RIVERINE RESEARCH

C.O. COL HYRUM DALLINGA TECH. ADV. FRANK S. MENDEZ

| | PROGRA | | AL YEAR (MILLION | 5) |
|----------------|----------------|----------------|------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 2.792 | 2.587 | |
| TOTAL PROCUREM | ENT | 0.063 | 0.040 | |
| TOTAL DEM | | 0.002 | 0.005 | |
| TOTAL OTHER | | 1.400 | 1.200 | |
| TOTAL ANNUAL L | AB | 4.257 | 3.832 | |
| TOTAL INHOUSE | | 4-257 | 3.832 | |
| TOTAL INHOUSE | RDT&E | 2.792 | 2.587 | |
| ANNUAL OPERATI | NG COST | 0.612 | 0.514 | |
| | PERSONNEL D | ATA (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON → |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 126 | 0 | 31 | 95 |
| CIVILIAN | 89 | 4 | 20 | 59 |
| TOTAL | 215 | 4 | 51 | 164 |
| | SPA | CE AND PROPERT | Y | |
| ACRES | SPACE (THOUSAN | DS OF SQUARE F | EET) COST | (HILLION \$) |
| | LAB AD | MIN OTHER | TOTAL REAL | PROP EQUIP |
| 18868 | 66.363 87. | 971 67-118 | 221.452 1 | .211 3.908 |

...MISSION
PLAN AND CONDUCT ENVIRONMENTAL PHASES OF ENGINEERING, EXPANDED SERVICE,
INTEGRATED ENGR/SERVICE EVALUATION, CHECK, AND CONFIRMATION TESTS.
SUPPORT TROPICAL ENVIRONMENTAL TESTS CONDUCTED BY OTHER AGENCIES.
CONDUCT RESEARCH IN TROPICAL ENVIRONMENTS.

...CURRENT IMPORTANT PROGRAMS
IN-HOUSE LABORATORY INDEPENDENT RESEARCH EILIRN.
DETERMINATION OF OPTIMUM TROPICAL STORAGE & EXPOSURE SITES, PHASE 1 AND PHASE 2. OPTIMUM DURATION OF TROPIC MATERIEL ITEMS.
MOBILITY IN NATURAL ENVIRONMENT.
EXPOSURE/PERFORMANCE TESTS OF SELECTED MATERIEL ITEMS.

***FUNCTIONS/EQUIPMENT/CAPABILITIES
EVALUATE AND RECOMMEND AS TO TEST ITEM SUITABILITY FOR PRESCRIBED USE
RECOMMEND TO HQ, TECOM, RESEARCH PROJECTS IN SUPPORT OF ARMY RDT&E.
PLAN AND SUPPORT RDT&E ACTIVITIES FOR DOD OR OTHER GOVERNMENT AGENCIES.
NATURAL TROPICAL ENVIRONMENT. FIRING RANGES UP TO 15MM CALIBER.
NATURAL TERRAIN MOBILITY COURSES. AMMO TEST STROAGE AND FUNCTIONING
AREAS. CHEMICAL, BIGLOGICAL, ELECTRONICS, SOILS, HUMAN FACTORS, AND
CALIBRATION LABORATORIES. JUNGLE GRASS AND COASTAL MATERIAL EXPOSURE
SITES. JUNGLE RADIO RANGING SITES. MAN-PACK PORTABILITY COURSE.
CALIBRATED SEISMIC DETECTION TEST GRIDS. PHOTOGRAPHIC SUPPORT FACILITY.
TECHNICAL OPERATIONS SUPPORT FACILITY, POL TANK FARM.

THE STATE OF THE PARTY OF THE P

C.O. COL E. L. BUESCHER

| 222224 | PRO | | | YEAR (MI | LLION \$) | |
|-----------------|-------------|--------------|-----------|-----------|-----------|----------|
| PROGRAM | | 1972 | | 1973 | _ | |
| | | CACTUAL | • | ACT + EST | - | |
| TOTAL RDT&E | | 13. | 691 | 15.6 | 45 | |
| TOTAL PROCUREMA | NT | 0. | 000 | 0.0 | 00 | |
| TOTAL O&M | | 1. | 974 | 1.7 | 86 | |
| TOTAL OTHER | | 4. | 291 | 5.0 | 68 | |
| TOTAL ANNUAL LA | AB | | 956 | 22.4 | - | |
| | | | | | | |
| TOTAL INHOUSE | | 19. | 956 | 22.4 | 99 | |
| TOTAL INHOUSE F | RDT&E | 13. | 691 | 15.6 | 45 | |
| ANNUAL OPERATIO | NG COST | | 120 | 3.1 | 20 | |
| | PERSONNE | L DATA (E) | ID OF FY | 1972) | | |
| PERSONNEL | AUTHORIZED | | TAL | TOTA | L | NON- |
| | STRENGTH | | PHDS | PRO | F | PROF |
| MILITARY | 546 | | 168 | 305 | • | 241 |
| CIVILIAN | 606 | | 120 | 253 | ı | 353 |
| TOTAL | 1152 | | 288 | 558 | | 594 |
| | | | | | | |
| | | SPACE AND I | PROPERTY | | | |
| ACRES | SPACE (THOU | ISANDS OF SO | JUARE FEE | ET) | COST (MIL | LIOM \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 1173 | 389.300 | 58.600 | 0.000 | 447.900 | 0.000 | 12.917 |

...MISSION
PERF MED R AND D AND CONDUCTS GRAD EDUC IN MED FLD, VET MED AND ALLIED
MED SCI. SERVES AS CONSULTING AND DIAGNOSTIC REF LAB FOR ARMY. PROV
ADVISORY SVC ON PROB OF EPIDEMIOLOGY IN MIL MED. PRODUCES AND DISTR
BIOL PROD NOT AVAIL FROM COM SOURCES.

...CURRENT IMPORTANT PROGRAMS
TO DISCOVER EFFECTIVE PREVENTIVE AND TREATMENT AGENTS FOR CONTROL OF
DRUG REFRACTORY MALARIA. TO DEVELOP MODES FOR CONTROL OF MENINGOCOCCAL
AND OTHER RESPIRATORY DISEASES OF RECRUITS. TO DEFINE THE ETIOLOGY OF
DRUG ABUSE IN SOLDIERS. MOLECULAR PHARMACOLOGY OF CHEMOTHERAPEUTIC
DRUGS. TO DEVELOP IMPROVED SURGICAL MGT OF SEVERELY INJURED CBT CAS.

RESEARCH, TEACHING AND REF LAB SERVICES SUMMARIZE MAJOR FUNCTIONS IN THE AREAS OF PREVENTIVE MEDICINE, INFECTIOUS DISEASES, SURGERY, NEUROPSYCHI-ATRIC DISEASES, INTERNAL MEDICINE, MEDICAL CHEMISTRY, AND BASIC MEDICAL SCIENCES. HIGHLY SOPHISTICATED MEDICAL EQUI?MENT IN ALL AREAS OF INVESTIGATION INCLUDING ELECTRON MICROSCOPES, AUTOMATED CHEMICAL ANALYSIS SYSTEMS, CHEMICAL TYPEWRITERS, BEHAVORIAL RESEARCH INSTRUMENTATION. THE WRAIR MAINTAINS LABORATORY AND RESEARCH FACILITIES AT FT MEADE MD, EDGEWOOD ARSENAL, MD, SEATO HQ, BANGKOK, THAILAND, AND BRAZIL, S.A. THE WRAIR IS CAPABLE OF CONDUCTING RESEARCH IN A VAST NUMBER OF AREAS.

C.O. MG ARTHUR H. SWEENEY TECH. DIR. DR. RICHARD H. DUNCAN

| PROGRAM | PROGRAM | DATA BY FISCA 1972 | L YEAR (MILLION 1973 | \$) |
|------------------------|-----------------|-----------------------|----------------------|--------------|
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 94.021 | 95.444 | |
| TOTAL PROCUREM | ENT | 3.168 | 3.497 | |
| TOTAL ORM | C.4. | 1.821 | 1.659 | |
| TOTAL OTHER | | 12.101 | 12.163 | |
| TOTAL ANNUAL L | A R | 111.111 | 112.763 | |
| | ~ | ****** | 1120105 | |
| TOTAL INHOUSE | | 91.240 | 90.5/3 | |
| TOTAL INHOUSE | RDT&E | 74.340 | 73.495 | |
| ANNUAL OPERATI | NG COST | 23.380 | 25.364 | |
| | PERSONNEL DA | TA (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | HON- |
| | STRENGTH | PHDS | P'ROF | PROF |
| MILITARY | 1181 | 6 | 1116 | 65 |
| CIVILIAN | 3594 | 6 | 441 | 3153 |
| TOTAL | 4775 | 12 | 1557 | 3218 |
| | SPAC | E AND PROPERTY | • | |
| ACRES | SPACE (THOUSAND | | | (MILLION \$) |
| · = · · = * | | IN OTHER | | |
| 4458509 | 1407.139 444.5 | | | 507 155.310 |
| | | | | |

...MISSION
MISSION-OPERATE A NATIONAL MISSILE RANGE FOR SUPPORT OF ALL APPROVED
MISSILE AND RELATED TEST PROGRAMS. INDEPENTLY YEST AND EVALUATE ARMY
MISSILE AND ROCKET SYSTEMS. ENGINEER AND DEVELOP RANGE INSTRUMENTATION
SYSTEMS FOR GATHERING TEST DATA.

---CURRENT INPORTANT PROGRAMS
PULSE-DO PPLER RADAR APPLICATIONS
DISTANT OPTICAL ATTITUDE MEASURING SYSTEM
TRANSPONDER DEVELOPMENT
LASER RANGING AND TRACKING SYSTEM
COHERENT BEACON CHECKOUT SYSTEM

GROUND AND FLIGHT SAFETY. OBTAINING FLIGHT TRAJECTORY AND EVENT DATA.
RECOVERING MISSILES OR PORTIONS THEREOF. REDUCING AND PUTTING INTO
READABLE FORMS DATA COLLECTED BY RANGE INSTRUMENTS. ENGINEERING AND
DEVELOPMENT OF RANGE INSTRUMENTATION. INDEPENTLY TEST AND EVALUATE
ARMY WEAPONS SYSTEMS.
EVALUATE GUIDANCE AND CONTROL SYSTEMS, STRUCTURAL INTEGRITY, PROPULSION
SYSTEMS, ELECTROMAGNETIC RADIATION EFFECTS. ANALYSIS OF CHEMICAL AND
METALLOGRAPHIC EFFECTS, MICROBIOLOGICAL EFFECTS, CLIMATIC ENVIRONMENTAL
EFFECTS. TEST AND EVALUATE MARHEADS AND SPECIAL WEAPONS. WEAPONS SIMULATION. NUCLEAR EFFECTS TESTING. COUNTER-COUNTER MEASURES TESTING. ELECTRONIC AND OPTICAL TRACKING SENSORS AND DATA TRANSMISSION REQUIRED TO
PROVIDE TEST DATA ON MISSILES AND RELATED PROGRAMS.

C.O. COL NORMAN L. ROBINSON TECH. ADV. FLOYD E. WATTS

| | PROGRAM DATA BY | FISCAL YEAR (MIL | LION \$) |
|-----------------------|-------------------|------------------|------------------------------|
| PROGRAM | 1972 | 1973 | |
| | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTGE | 11.50 | 8 11.73 | 2 |
| TOTAL PROCUREMENT | 8.73 | 7 10.63 | 0 |
| TOTAL DEM | 0.54 | 2 0.48 | 0 |
| TOTAL OTHER | 3.86 | 6 3.79 | 8 |
| TOTAL ANNUAL LAB | 24.65 | 3 26.64 | 0 |
| TOTAL INHOUSE | 24.65 | 3 26.64 | 0 |
| TOTAL INHOUSE RDT&E | 11.50 | 8 11.73 | 2 |
| ANNUAL OPERATING COST | 9.43 | 6 10.42 | 2 |
| PER: | SONNEL DATA (END | OF FY 1972) | |
| PERSONNEL AUTHOR: | IZED TOTA | L TOTAL | NON- |
| STRE | IGTH PHD | S PROF | PROF |
| MILITARY | k36 1 | 3 92 | 344 |
| CIVILIAN | | 0 89 | 713 |
| TOTAL 1: | 238 1 | 3 181 | 1057 |
| | SPACE AND PRO | PERTY | |
| | THOUSANDS OF SQUA | | COST (MILLION \$) |
| LA 1086989 166.2 | | | EAL PROP EQUIP 85.771 55.357 |

---MISSION
PLAN, CONCUCT, RPT ENG TEST AIRDROP MAT AND LONG RANGE TUBE ARTY
DESERT ENVIRONMENT TEST OF ARMY MATL AS DIRECTED
PLAN, CONDUCT, RPT ENG DESIGN PROC AND PCST PROD TEST AS DIRECTED
PLAN, CONDUCT, RPT ENG DISIGN TEST OF AIRCRAFT WEAPONS SYSTEM

---CURRENT IMPORTANT PROGRAMS
AIRCRAFT RECOVERY KIT
TRUCK, 1/4 TON XM705
HET 70
CHEYENNE AJ56A SUPPORT
2.757 BASELINE ACCURACY

***FUNCTIONS/EQUIPMENT/CAPABILITIES BALL ISTIC MEASUREMENT RANGES ENG TEST FACILITIES VEHICLE FIELD TEST FACILITIES TEST COURSES DESERT TERRAIN TEST AREAS CONTROLLED IMPACT TEST FACILITY INSTRUMENTED DROP ZONES RADIO TELEMETRY DATA PROCESSING CENTER RANGE TIMING OPTICAL PHOTO ENG FACILITIES

INSTALLATION ENVIRONMENTAL PREDICTION RESEARCH FACILITY MONYEREY, CA.

C.O. CDR G.D. HAMILTON

0

| | | PROGRAM | DATA BY FI | SCAL YEAR (MIL | LION \$) |
|--------|--------------|---------------|------------|----------------|-------------------|
| PROGRA | M | | 1972 | 1973 | |
| | | (| ACTUAL) | (ACT + EST) | |
| TOTAL | RDT&E | | 1.079 | 0.75 | • |
| TOTAL | PROCUR EMENT | | 0.000 | 0.00 | 0 |
| TOTAL | M30 | | 0.002 | 0.00 | 0 |
| TOTAL | OT HER | | 0.077 | 0.20 | 0 |
| TOTAL | ANNUAL LAB | | 1.158 | 0.95 | • |
| TOTAL | INHOUSE | | 0.885 | 0-68 | 3 |
| TOTAL | INHOUSE RDT& | E | 0.806 | 0.48 | 3 |
| ANNUAL | OPERATING C | OST | 0.076 | 0.09 | 5 |
| | | PERSONNEL DAT | | FY 1972) | |
| PERSON | INEL AUT | HORIZED | TOTAL | TOTAL | NON- |
| | · S | TRENGTH | PHDS | PROF | PROF |
| MILITA | NRY | 16 | 1 | 7 | 9 |
| CIVIL | IAN | 27 | 1 | 15 | 12 |
| TOTAL | | 43 | 2 | 22 | 21 |
| | | SPACE | AND PROPE | RTY | |
| ACRE | S SPA | CE (THOUSANDS | OF SQUARE | FEET) | COST (MILLION \$) |
| | | LAB ADMI | N OTHE | R TOTAL R | EAL PROP EQUIP |

...MISSION
CONDUCT RESEARCH AND DEVELOPMENT, DIRECTED TOWARDS PROVIDING EFFECTIVE
LOCAL AND REGIONAL ENVIRONMENTAL ANALYSIS AND PREDICTION TECHNIQUES& AND
PROVIDE PLANNING, MODELING AND EVALUATION SERVICES FOR THE NAVAL WEATHER
MODIFICATION PROGRAM.

6.351

8.000

0.000

0.195

0.843

0.806

...CURRENT IMPORTANT PROGRAMS
COMPUTER SIMULATION OF FOG/CLOUD AND PRECIP. MICROPHYSICAL PROCESSES
IMPROVED TECHNIQUES FOR APPLICATIONS OF ENVIRONMENTAL SATELLITE DATA.
IMPROVED MESOSCALE PREDICTION TECHNIQUES (MEDITERRANEAN, TYPHOONS ETC.)
IMPROVED WEATHER DATA PRESENTATION METHODS.
HYDRODYNAMICAL NUMERICAL MODELLING OF WATER LEVELS AND CURRENTS

***FUNCTIONS/EQUIPMENT/CAPABILITIES
CDC 3100 COMPUTER AND PERIPHERAL EQUIPMENT,
IBM 1130 COMPUTER AND PERIPHERAL EQUIPMENT
METEORLOGICAL/OCEANOGRAPHIC DATA DISPLAY SYSTEM
IN-HOUSE DOCUMENTATION FACILITIES (MTST, PLATE MAKER, OFFSET PRESS, ETC.)
20,000 VOLUME TECHNICAL LIBRARY OF ENVIRONMENTAL PUBLICATIONS
IN-HOUSE GRAPHIC ARTS AND DRAFTING FACILITIES.
CALMA DIGITIZER
CALCOMP 565 PLOTTER

INSTALLATION NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY PENSACOLA, FL.
C.O. CAPT N.W. ALLEBACH TECH. ADV. DR. A. GRAYBIEL

| DD 000 AM | PROGRAM | | L YEAR (MILLION | \$) |
|----------------|------------------|--------------|-----------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | • | ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 3.408 | 3.393 | |
| TOTAL PROCURE | MENT | 0.000 | 0.000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.300 | 0.321 | |
| TOTAL ANNUAL | LAB | 3.708 | 3.714 | |
| TOTAL INHOUSE | | 3.708 | 3-714 | |
| TOTAL INHOUSE | RDT&E | 3.408 | 3.393 | |
| ANNUAL 'OPERAT | ING COST | 1.091 | 0.891 | |
| | PERSONNEL DAT | A (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 31 | 11 | 19 | 12 |
| CIVILIAN | 123 | 17 | 49 | 74 |
| TOTAL | 154 | 28 | 68 | 86 |
| | SPACE | AND PROPERTY | 1 | |
| ACRES | SPACE (THOUSANDS | OF SQUARE FE | ET) COST | (MILLION \$) |
| | LAB ADMI | N OTHER | TOTAL REAL P | ROP EQUIP |
| 0 | 131.787 19.60 | 4 11.693 | 163.084 2. | 807 2.073 |

...MISSION
CONDUCT RESEARCH DEVELOPMENT TEST AND EVALUATION IN ASROSPACE MEDICINE
AND RELATED SCIENTIFIC AREAS APPLICABLE TO AEROSPACE SYSTEMS

...CURRENT IMPORTANT PROGRAMS
PHYSIOLOGICAL EFFECTS OF NONIONIZING RADIATION
HUMAN DYNAMIC RESPONSE TO IMPACT ACCELERATION
PREVENTION OF DISORIENTATION AND VESTIBULAR DISTURBANCES IN FLIGHT
AVIATION PERSONNEL PROCUREMENT AND SELECTION
EVALUATION OF CARDIOVASCULAR DISEASE RISK IN FLIGHT PERSONNEL

***FUNCTIONS/EQUIPMENT/CAPABILITIES
NONIONIZING RADIATION FACILITY WITH MICROWAVE AND EXTREMELY LOW FIELD
CAPABILITIES IMPACT ACCELERATION FACILITY EXAMINATION OF FLIGH PERS
FOR PHYSICAL FITNESS PSYCHOLOGICAL APTITUDES AND TOLERANCE TO STRESS
EQUIPPED FOR HUMAN AND ANIMAL EXPERIMENTS IN UNUSUAL FORCE ACOUSTICAL
ELECTROMAGNETIC AND ATMOSPHERIC ENVIRONMENTS SLOW ROTATION ROOM HUMAN
DISORIENTATION DEVICE CORIDLIS ACCELERATION PLATFORM SHIP MOTION SIMULATOR STILLE-WERNER CHAIR OFF VERTICAL ROTATING CHAIR ELECTRON MICROSCOPE SUPER CONDUCTING MAGNET ANACHOIC CHAMBER ELECTRIC POSTURE TABLE
VERTICAL OSCILLATOR REVERBERANT CHAMBER PERIODIC ANFULAR ROTATOR CINE®
GLOBE OPTOKINETIC STIMULATOR ULTRACENTRIFUGE VECTORCARDIOGRAPH LOW
PRESSURE CHAMBER BALLISTOCARDIOGRAPH X-RAY VIVARIUM WITH OPERATING
SUITE

1988, STORAGE

44-000

101290

C.O. CAPT CLARENCE E. RICH TECH. DIR. HOWARD C. FISH

| | PROGRAM D | | L YEAR (HILLION S | 3) |
|---------------|------------------|--------------|-------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | (A | CTUAL) | (ACT + EST) | |
| BATCH JATOT | | 2.447 | 2.588 | |
| TOTAL PROCURE | MENT | 2.687 | 2.375 | |
| M30 JATOT | | 0.370 | 0.330 | |
| TOTAL OTHER | | 1.962 | 2.000 | |
| TOTAL ANNUAL | LAB | 7-466 | 7.293 | |
| | | 10100 | | |
| TOTAL INHOUSE | <u> </u> | 6.496 | 6.488 | |
| TOTAL INHOUSE | | 2.347 | 2.513 | |
| ANNUAL OPERAT | ING COST | 1.400 | 1-400 | |
| | | | | |
| | PERSONNEL DATA | (END OF FY | (1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 166 | 1 | 9 | 157 |
| CIVILIAN | 110 | ō | 24 | 86 |
| TOTAL | 276 | ĭ | 33 | 243 |
| 10176 | 210 | • | 33 | 243 |
| | SPACE | AND PROPERTY | • | |
| ACRES | SPACE (THOUSANDS | OF SAUARE FE | ET) COST | (MILLION \$) |
| | LAB ADMIN | OTHER | TOTAL REAL P | ROP EQUIP |
| | | | | |

---MISSION
DEVELOP TEST AND EVAL PARACHUTES AND RELATED ASSY HUMAN ESCAPE METHODS AND SYS RETARD AND RECON SYS AND RESCUE SURVIVAL AND PERSONNEL SAFETY EQUIP STABILIZATION RETARD AND RECOV SYS FOR LAY-DOWN WEAPONS AIRCRAFT MISSILE AND CAPSULE ASSY AND SPECIAL LOG AERIAL DELIVERY METH TECH EQUIP

263.000

317.000

8.598

3.758

10.000

---CURRENT IMPORTANT PROGRAMS
LEAD LAB ON SEU-3/A ESCAPE SYSTEM FOR AV8A HARRIER AIRCRAFT
HELD ESCAPE AND PERSONNEL SURVIVAL ENCAPSULATED AND INDIVIDUAL ESCAPE
AIRCREW ESCAPE RECOVERY CAPABILITY (AERCAB)
MAXIMUM PERFORMANCE ESCAPE SYSTEM
GUNFIRED MISSILE RETARDATION SYSTEM

DROP TEST RANGE LAND AND SALT WATER INST WITH SPACE POSITION, LONG RANGE PHOTO, CCTV, TELEMETRY, DATA PROC, RAWIN, WHIRL AND DROP TEST TOWERS. RANGE PARAMETERS SEA LEVEL TO 80000 FT SPEED 0-MACH 3. ENGINEERING SERVICES EXPL DEV, ADV AND BASIC DESIGN, INSERV AND TEST ENGR. MATL LAB WITH TEXTILE MATL TEST AND ENVIRONMENTAL ACCEL EQUIP, TENSILE TEST FM 0-20000 LB AND PHYSIOLOGICAL EVAL EQUIP. PHOTO LAB WITH STILL AND MOTION PICTURE 16 MM TO 70MM COLOR UP TO 5000FPS. A/C SUP, TRANSPORT DELIVERY, LOW TO HIGH SPEED VEHICLE DELIVERY, AIR-TO-AIR PHOTO, EJECTION SEAT TEST BED, PERSONNEL DELIVERY AND SIMULATED WEAPON DELIVERY. INDUSTRIAL SHOP-TEST VEHICLE AND PROTOTYPE PARACHUTE AND ASSOCIATED HARDWARE FABRICATION.

C.O. CAPT M.B. MC CAULEY TECH. DIR. G.L. HOLLINGSWORTH

| PROCRAM | PR | | A BY FISC | AL YEAR (M) 1973 | (LLION \$) | |
|----------------|------------|-----------|------------|---------------------|------------|----------|
| 7 1112 - 12411 | | _ | UAL | (ACT + EST | 73 | |
| 1. AL ROTGE | | | 71.889 | 86.6 | | |
| TOTAL PROCURE | MENT | | 21.194 | 18.7 | 754 | |
| M30 JATOT | | | 5.599 | 6. | 558 | |
| TOTAL OTHER | | | 5-520 | 5.4 | 42 | |
| TOTAL ANNUAL | LAB | 1 | .04.202 | 117-4 | 443 | |
| TOTAL INHOUSE | • | | 49.203 | 50.0 | 25 | |
| TOTAL INHOUSE | RDTEE | | 37-307 | 37 | 702 | |
| ANNUAL OPERAT | ING COST | | 12-815 | 13.0 | 000 | |
| | PERSONN | EL DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHOP!ZED | | TOTAL | TOT | NL | NON- |
| | STRENGTH | | PHDS | PRO | F | PROF |
| MILITARY | 389 | | 11 | 10 | 7 | 282 |
| CIVILIAN | 2335 | | 27 | 1042 | 2 | 1293 |
| TOTAL | 2724 | | 38 | 114 | 9 | 1575 |
| | | SPACE AN | ID PROPERT | Y | | |
| ACRES | SPACE (THO | USANDS OF | SQUARE F | EET) | COST (HIL | LION \$) |
| | 'L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 831 | 81.5.970 | 26.080 | 444.075 | 1205-125 | 22.912 | 37.610 |

TO BE THE PRINCIPAL NAVY ROTSE CENTER FOR NAVAL AIRCRAFT SYSTEMS

...CURRENT IMPORTANT PROGRAMS
SHIP AIR SYSTEMS INTEGRATION (SASI)
LIGHT AIRBORNE MULTI-PURPOSE LYSTEMS (LAMPS)
ADVANCED ACGUSTIC SENSORS
HELICOPTER SENSOR SYSTEMS
AIRUPEN LIFE SUPPORT SYSTEMS, PROTECTIVE CLOTHING AND DEVICES

***FUNCTIONS/EQUIPMENT/CAPABILITIES
KSCH, DESISN, DEVELOP, TEST, LAB AND FLIGHT EVAL. LONG-RANGE AIR WARFARE
STUDIES, THEORETICAL ANAL, ENGIN ANAL AND FEAS PROTOTYPE DEVELOP OF SYS
IN ABN ASM, ATTACK CARRIER WARFARE AND OCEAN SURVEILLANCE ENGIN ANAL ON
AERO SYSTEM COMP AND AREAS OF TECHNOLOGY IN ABN ASW SYSTEMS COMMUNICATI
ONS, NAVIG, DIGITAL COMPUTATION, COUNTERMEAS, AEW, FC, AEROSPACE MED,
BIOPHYSICAL EFFECTS OF ACCELERATION, HUMAN FACTORS, AIRCREW PERSONAL
AND SAFITY EQUIP SPEC A/C CONFIG CONTROL SYSTEM, ABN WEAPONS HAND EQUIP,
ABN PHOTO EQUIP, MATERIALS AND PROCESSES USED IN A/C AIRFRAME STRUCTURES
AND SUPPORT TO OTHER ACTIVITIES AS DIRECTED.

C.O. CAPT. C.T. FROSCHER TECH. DIR. J.M. DUNFORD

| | PROGR | AM DATA BY FISCA | L YEAR (MILLION | \$) |
|----------------|--------------|------------------|-----------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 12.813 | 11.905 | |
| TOTAL PROCUREM | ENT | 37.029 | 25.972 | |
| TOTAL DEM | | 24-601 | 16.864 | |
| TOTAL OTHER | | 4.554 | 3-210 | |
| TOTAL ANNUAL L | AB | 78.997 | 57.951 | |
| TOTAL INHOUSE | | 46.283 | 40.954 | |
| TOTAL INHOUSE | RDT&E | 8-162 | 7.583 | |
| ANNUAL OPERATI | NG COST | 9.338 | 9.401 | |
| | PERSONNEL | DATA (END OF FY | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 37 | 0 | 15 | 22 |
| CIVILIAN | 2198 | 4 | 406 | 1792 |
| TOTAL | 2235 | 4 | 421 | 1814 |
| | SP | ACE AND PROPERTY | Y | |
| ACRES | | NDS OF SQUARE FE | | (MILLION \$) |
| | | DMIN OTHER | TOTAL REAL | |
| 560 | 1373.426 177 | -625 723-209 | 2274-260 32 | -293 17-039 |

...MISSION
CONDUCT A PROG. OF RDT&E, SYS. INTEGRATION, LIMITED PROD'N, PROCUREMENT
& FLEET ENGINEERING SUPP. IN LAUNCHING, RECOVERY & LANDING AIDS FOR A/C
IN NAVAL INTELLIGENCE PROCESSING SYSTEMS& & IN GROUND SUPPORT EQUIP. FOR
A/C, AIRBORNE WEAPONS SYS. & NAVAL INTELLIGENCE PROCESSING SYS.

...CURRENT IMPORTANT PROGRAMS
SHIPBOARD RECOVERY OF HELICOPTERS AND V/STOL
SHIPBOARD STORED ENERGY ROTARY DRIVE CATAPULT
VERSATILE AUTOMATIC SHOP TESTER
AIRCRAFT NOISE SUPPRESSION PROGRAM
INTEGRATED OPERATIONAL INTELLIGENCE CENTER FOR CVA - 69

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCT ROTEE ON A/C. LAUNCHING AND RECOVERY EQUIP., VISUAL LANDING AIDS
NAVAL INTELLIGENCE PROCESSING SYSTEMS, GROUND SUPPORT EQUIP.AND RELATED
SYS. PROVIDE FLEET SUPPORT FOR INST*LD EQUIP. DETERMINE SUPP. EQUIP.
REQUIREMENTS BY PERFORMING ANALYSES OF END-ITEMS. MANAGE TEST PROGRAMS
FOR EQUIP. TESTED ON VERSATILL AVIONICS SHOP TEST SYSTEM. MACHINE SHOP
WITH CONVENTIONAL AND AUTOMATED MACHINE TOOLS CAPABLE OF PROTOTYPE AND
LIMITED PRODUCTION.IBM 250/50 COMPUTER FOR ENGINEERING ANALYSES. LANDING
MAT TEST FACILITY FOR FULL SCALE SIMULATION OF RUNWAY LOADING. TEST
FACILITY FOR EVAL. OF WIRE ROPE COMPONENTS. TEST LAB FOR DEVELOPMENT
TESTING O. HYDRAULIC. PNEUMATIC AND ELECTRICAL EQUIP. UNDER CONDITIONS
SIMULATING FLEET USE. TEST AND EVAL SITE FOR NAV INTELL PROCESSING SYS.
VACUUM FURNACE FOR HEAT TREATING. ELECTRON BEAM WELDER. CRYOGENICS FAC.

C.O. CAPT A.D. WILLIAMS

| | PROGR | AM DATA BY FISCA | AL YEAR (MILLION | \$) |
|---------------|------------|------------------|------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTGE | | 11.233 | 13.193 | |
| TOTAL PROCURE | MENT | 3.000 | 4.700 | |
| TOTAL O&M | | 0.016 | 0.010 | |
| TOTAL OTHER | | 2.201 | 2.794 | |
| TOTAL ANNUAL | LAB | 16.450 | 20.607 | |
| TOTAL INHOUSE | | 11.052 | 13.072 | |
| TOTAL INHOUSE | RDT&E | 7.425 | 7.700 | |
| ANNUAL OPERAT | ING COST | 3.596 | 3.000 | |
| | PERSONNEL | DATA (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 10 | 0 | 9 | 1 |
| CIVILIAN | 690 | Đ | 158 | 532 |
| TOTAL | 700 | 0 | 167 | 533 |
| | SI | PACE AND PROPERT | Y | |
| ACRES | | ANDS OF SQUARE F | | (HILLION \$) |
| - | LAB | ADMIN OTHER | TOTAL REAL | PROP EQUIP |
| 66 | 410.937 5 | 1.800 136.000 | 598.737 45 | .076 13.600 |

---MISSION
TO TEST AND EVALUATE AIRCRAFT PROPULSION SYSTEMS-THEIR COMPONENTS AND
ACCESSORIES AND FUELS AND LUBRICANTS AND TO PERFORM APPLIED RESEARCH AND
DEVELOPMENT LEADING TO CORRECTION OF DESIGN DEFICIENCIES AND SERVICE
PROBLEMS

...CURRENT IMPORTANT PROGRAMS
KF401-PW-400 PERFORM ALT AND ENVIRONMENTAL DEVELOPMENT TEST AND EVALUATE
IF34-GE-2 QUAL TESTS FOR PERFORMANCE ALT-ENVIRONMENTAL CONDITIONS
TF30-P6412 PERFORM QUAL TESTS IAW MIL-E-5007 SPEC
AVN FUELS AND LUBES MIL-L-23699 CHARACTERISTICS-SPEC-TESTS AND QUALS
YT400-CP-400 ENVIRONMENTAL QUAL TESTS

PROVIDE A TEST AND EVALUATION CENTER FOR AIRCRAFT PROPULSION SYSTEMS AND PROPULSION RELATED COMPONENTS. ENVIRONMENTAL CONDITIONS OF FLIGHT AND SERVICE ARE SIMULATED IN TEST CELLS-ON TEST BENCHES-OR IN THE LABORATORY THE TURBOJET-FAN-LARGE CELLS CAN SIMULATE ALTITUDES FROM SEA LEVEL TO BOOOD FT WITH TEMPERATURES FROM MIMUS 65 DEG TO PLUS 320 DEG F. THRUST STANDS INSTALLED ARE CAPABLE OF MEASURING THRUST TO 50000 LBS. THESE CELLS ARE FULLY CAPABLE OF TESTING THE LARGER JET ENGINES NOW IN NAVY SERVICE. THE TURBOSHAFT CELLS ARE CAPABLE OF SIMULATING ALTITUTES FROM SL TO OVER 40000 FT WITH SPECIFICATION RANGE OF TEMPERATURES. TEST CELL FACILITIES EXIST FOR COMPLETE RANGE OF SHAFT POWER ENGINES WITH SUB FACILITIES FOR TEST AND EVALUATION OF SHAFT ENGINE COMPONENTS-FUELS-LUBRICANTS - AUX POWER SYSTEMS AND ACCESSORIES

AND STREET, STREET, COLOR

INSTALLATION NAVAL AIR TEST CENTER

C.O. RADM ROY M. ISAMAN TECH. DIR. JOHN B. PARADIS

| | | FISCAL YEAR (MILLION | 5) |
|-----------------------|-----------------|----------------------|------|
| PROGRAM | 1972 | 1973 | |
| | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | 34.71 | 3 32.833 | |
| TOTAL PROCUREMENT | 26.79 | 9 23.572 | |
| TOTAL D&M | 6.04 | 8 5.098 | |
| TOTAL OTHER | 22-21- | 4 22-171 | |
| TOTAL ANNUAL LAB | 89.77 | 83.674 | |
| TOTAL INHOUSE | 74.32 | 8 69.850 | |
| TOTAL INHOUSE ROTEE | 31.01 | 4 29.326 | |
| ANNUAL OPERATING COST | 26.68 | 0 28.429 | |
| PERS | ONNEL DATA (END | OF FY 1972) | |
| PERSONNEL AUTHORI | ZED TOTA | L TOTAL | NON- |
| STREN | GTH PHD | S PROF | PROF |
| MILITARY 9 | 11 | 1 205 | 706 |
| CIVILIAN 20 | 142 | 5 420 | 1622 |
| TOTAL 29 | 53 | 6 625 | 2328 |

| | | SPACE A | ND PROPERT' | 4 | | |
|-------|-----------|------------|-------------|----------|------------|----------|
| ACRES | SPACE (TH | DUSANOS DI | F SQUARE FI | EET) | COST (MILI | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 6872 | 748-000 | 216-948 | 3101.833 | 4066.781 | 111.589 | 40.050 |

...MISSION
COORDINATE & PERFORM TEST & EVAL OF AIRCRAFT WEAPONS SYSTEMS, THEIR
COMPONENTS & RELATED EQUIPMENT, CONDUCT TEST PILOT TRAINING, PROVIDE
TECHNICAL ADVICE & ASSISTANCE TO BIS NASC CONTRACTORS, ETC.

-..CURRENT IMPORTANT PROGRAMS
EVALUATION NEW AIRCRAFT F14 S3A AD1J SH3D LAMPS AT A4M EP3E A6E//
CHECKOUT ALL AIRCRAFT IN AIMS AIRSPEED/ALTIMETER SYSTEMS//CHECKOUT ALL
ACLS//DEVELOPMENT & EVAL OF ASW SYSTEMS TACTICAL SUPPORT CENTER P3C CV
TSC/EVAL GROUND SUPPORT EQUIP VAST HUMAN FACTORS GRAN HEADS UP DISPLAY
SYSTEMS//ELECTRONIC WARFARE SYS TRAM CHARGER BLUE EA6A//

DEVELOP & TEST CONCEPTS FOR OPERATING AIRPLANES FROM CARRIERS//EVAL AIRCRAFT MAINTENANCE & RELIABILITY// PERFORM ACCELERATED SERVICE TESTS/PERFORM ELECTROMAGNETIC COMPATIBILITY TESTS//DEVEL & EVAL AIRCRAFT ELEC SYSTEMS//RESEARCH & DEVEL AIRCRAFT INSTRUMENTATION & DATA GATHERING DEVICES & SYSTEMS//ESTABLISH STORE RELEASE ENVELOPES//RECOMMEND DESIGN CHANGES TO AIRCRAFT//CONDUCT NAVY PRELIMINARY EVAL//MAJOR FACILITIES//CATAPULTS & ARRESTING GEARS//INTERFERENCE TEST HANGAR//AVIONICS LAB//INSTRUMENTED THEODOLITE RADAR & ECM RANGE/EXTENSIVE ELEC & ENVIRONMENTAL LABS//EXTENSIVE INSTRUMENTATION. REAL TIME TELEMETRY, AND COMPUTER CAPABILITY//ENGINE TEST CELLS//OVER 120 TEST AIRCRAFT//LONG RUNWAYS//AIRCRAFT WEIGHING SCALES//HYDROFOIL SEAPLANE TEST CAPABILITY//SURFACE EFFECTS SHIPS TEST FACILITIES.

INSTALLATION NAVAL AIR TEST FACILITY (SHIP INSTALLATIONS) LAKEHURST, N.J.

C.O. CAPT CHARLES L. AXELL TECH. DIR. NICHOLAS IVANOVIC

| PROGRAM | PROGRAM DATA BY FISCAL 1972 | YEAR (MILLION \$) |
|-----------------------|--------------------------------|-------------------|
| | (ACTUAL) (| ACT + EST) |
| TOTAL ROTGE | 1.371 | 1.062 |
| TOTAL PROCUREMENT | 2.611 | 2.439 |
| TOTAL ORM | 4.327 | 5.006 |
| TOTAL OTHER | 1,466 | 1.912 |
| TOTAL ANNUAL LAB | 9.775 | 10.419 |
| TOTAL INHOUSE | ~ () t | 10.414 |
| TOTAL INHOUSE RDT&E | l.i | 1.062 |
| ANNUAL OPERATING COST | 3.5 | 3.712 |

| | PERSONNEL DATA | (ENG | ≝Y 1972) | |
|-----------|----------------|------|----------|------|
| PERSONNEL | AUTHORIZED | TOT | TOTAL | NON- |
| | STRENGTH | PHUS | PROF | PROF |
| MILITARY | 134 | 0 | 7 | 127 |
| CIVILIAN | 405 | 0 | 74 | 331 |
| OTAL | 539 | 0 | 81 | 458 |

| | | SPACE AND | PROPERTY | | | |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THE | USANDS OF | SQUARE FEI | ET) | COST (HILL | ION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 2500 | 59-204 | 29.598 | 91.906 | 180.708 | 34.172 | 7.431 |

TO CONDUCT TESTS AND EVAL OF LAUNCHING RECOVERY AND VISUAL LANDING AIDS SYSTEMS AND RELATED EQUIPMENT PROVIDE TEST SITES FACILITIES FOR DEV TEST OF SI EQUIPMENT CONDUCT R AND D OF EQUIP AND INSTRUSED IN TEST AND EVALUATION OF SI EQUIPMENT

---CURRENT IMPORTANT PROGRAMS
EVAL OF INTEGRATED CATAPULT CONTROL STATION
HELICOPTER SUPPORT TEST AND EVALUATION CENTER
CVAN-68 JET BLAST DEFLECTOR DEV AND EVAL PROGRAM
CVAN-68 FLUSH DECK NOSE GEAR LAUNCH DEV ANC EVAL PROGRAM
CVAN-68 DEV AND EVAL PROGRAM

CARRIER CONFIGS OUPLICATED AND SERV OPS SIMULATED WITH NAVAL ACFT CAT DEV FAC SHIPBOARD USED TO DEV EVAL NEW ACFT-CARRIER LAUNCH SYSTEM CAT DEV FAC SHOREBASED EXPEDITIONARY CAT FOR DEV MARINE CORPS SATS CONCEPT AND REQUIRED ACFT LAUNCHING ACCESSORIES ARRESTING GEAR DEV FAC SHIPBOARD CONFIGURED TO SIMULATE STANDARD SHIPBOARD ARRESTING GEAR INSTAL MK5 MDD 3 AND MK7 MOD 1 2 AND 3 TEST TRACK FAC 5 TO DEV AND/OR EVAL SHOREBASED AND SHIPBOARD CAT SITES STEAM PLANT FAC SUPPLIES HIGH PRESS STEAM TO SHIPBOARD CAT SITES HYDRAULIC TEST FAC CONSISTS OF TWO HYDRAULIC TEST BENCHES DIGITAL AND ANALOG COMPUTATIONAL FAC PROVIDES FOR SCIENTIFIC PROBLEM SOLUTION MIS AND SCIENTIFIC DATA REDUCTION OF ACQUIRED DATA INSTR MAIN/CALIB FAC MOTION/STILL PHOTO CAP AND FILM DEV LAB

C.O. COR CESARE R. VALERT

| | PROGRAM DATA BY FIS | CAL YEAR (MILLION & | ;) |
|-----------------------|---------------------|---------------------------------------|-------------|
| PROGRAM | 1972 | 1973 | |
| | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | 0.332 | 0.328 | |
| TOTAL PROCUREMENT | 0.000 | 0.000 | |
| TOTAL OEM | 0.000 | 0.000 | |
| TOTAL OTHER | 0.137 | 0.171 | |
| TOTAL ANNUAL LAB | 0.469 | 0.499 | |
| TOTAL ANNUAL CAD | V• 409 | 0.433 | |
| TOTAL INHOUSE | 0.469 | 0.499 | |
| TOTAL INHOUSE ROTEE | 0.332 | 0.328 | |
| ANNUAL OPERATING COST | 0.070 | 0.060 | |
| PERS | ONNEL DATA (END OF | FY 1972) | |
| PERSONNEL AUTHORI | | TOTAL | NON- |
| STREN | | PROF | PROF |
| | 10 4 | 6 | 4 |
| | 13 | Ö | 13 |
| | 23 4 | 6 | 17 |
| 10175 | - | • | •• |
| | SPACE AND PROPER | TY | |
| ACRES SPACE (| THOUSANDS OF SQUARE | | MILLION \$3 |
| LAB | | = • | OP EQUIP |
| 0 6.00 | | · · · · · · · · · · · · · · · · · · · | |

...MISSION
CONDUCT RESEARCH AND DEVELOP METHODS FOR LONG-TERM PRESERVATION OF BLOOD
AND BLOOD PRODUCTS AND EVALUATION OF USEFULNESS IN OPERATIONAL AREAS ON
LAND AND AT SEA AND IN HOSPITALS

•••CURRENT IMPORTANT PROGRAMS
EVALUATE IMPROVED METHODS FOR PRESERVING RED CELLS
EVALUATE METHODS FOR PRESERVING PLATELETS AND WHITE CELLS
EVALUATE IMPROVED METHODS FOR COMPONENT THERAPY
CLINICAL EVALUATION OF FROZEN RED CELLS AND PLATELETS
EVALUATE METHODS OF REJUVENATING OUTDATED RED CELLS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
HOLD FOR DONOR AND RARE BLOOD BANK STORAGE CAPABILITY
LIQUID AND FREEZE PRESERVATION EQUIPMENT FOR RED CELLS. WHITE CELLS.
AND PLASMA COMPONENTS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF RED
CELLS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF WHITE
BLOOD CELLS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF
PLATELETS

C.O. CAPT E.M. SAUNDERS TECH. DIR. WILLIAM F. BURKART

| | PROGRAM DATA BY | FISCAL YEAR (MIL | LION \$) |
|-----------------------|-----------------|------------------|----------|
| PROGRAM | 1972 | 1973 | |
| | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTGE | 9.7 | 00 10.77 | 3 |
| TOTAL PROCUREMENT | 0.0 | 69 0-07 | 3 |
| TOTAL OEM | 1.3 | 61 1.35 | 0 |
| TOTAL OTHER | 0.6 | 57 0.66 | .7 |
| TOTAL ANNUAL LAB | 11.7 | 87 12.86 | 3 |
| TOTAL INHOUSE | 8.4 | 34 9.15 | 5 |
| TOTAL INHOUSE ROTEE | 6 • d | 33 7.54 | -2 |
| ANNUAL OPERATING COST | 1.6 | 37 1.79 | :3 |
| PERS | ONNEL DATA (END | OF FY 1972) | |
| PERSONNEL AUTHORI | | | . NON- |
| STREN | GTH PH | DS PROF | PROF |
| MILITARY | 21 | 1 9 | 12 |
| CIVILIAN 3 | 61 | 39 196 | 165 |
| | | 40 205 | 177 |

| ACRES | SPACE (THO | SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET) | | | COST (MILLION \$) | |
|-------|------------|---|--------|---------|-------------------|-------|
| | LAB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 22 | 120.352 | 21.977 | 31.548 | 173.877 | 5.733 | 5.679 |

***MISSION
MISSION OF LABORATORY IS TO BE THE PRINCIPAL NAVY RDT&E CENTER FOR SHORE
AND SEAFLOOR FACILITIES AND THE SUPPORT OF MARINE CORPS CONSTRUCTION
FORCES

...CURRENT IMPORTANT PROGRAMS
NAVY SHORE FACILITIES SUPPORT. NAVY SEAFLOOR INSTALLATIONS. AMPHIBIOUS &
ADVANCED BASE TECHNOLOGY. ENVIRONMENTAL PROTECTION. ORGANIC MATERIALS.
MATERIAL CONTROL DISTRIBUTION & STORAGE. DEEP OCEAN TECHNOLOGY. DEVELOPMENTS ASSIGNED BY SUPT OF SALVAGE. INDEPENDENT EXPLORATORY DEVELOPMENT &
INDENDENT RESEARCH ROTEE FOR SANGUINE, AIRFORCE, MARINE CORPS, ARMY

PRESSURE VESSEL FACILITY WITH 72-INCH-ID BY 10 FT DEEP PRESSURE VESSEL SUST INING PRESSURES UP TO 5500 PSI DIVING LOCKER & EQUIPMENT FOR 10 DIVLAS. SEAFLOOR SOILS, MATERIALS, SOLID STATE, METALURGICAL, PHOTOELAST-TIC, SNOW AND ICE LABORATORIES. UNDERSEA DIVER CONSTRUCTION VEHICLES (CAU, BTU & NEMO) & WARPING TUG& CORER FOR TAKING SAMPLES AT WATER DEPTHS TO 6000 FT.& INSTU TESTING EQUIPMENT FOR DEEP OCEAN INCLUDING A VANE SHEAR DEVICE, CONE PENETOMETER, 10 FT CORER, PLATE BEARING TEST DEVICE & FOUNDATION MONITOR. A MOTION COMPENSATING LIFTING SYSTEM CAPABLE OF LIFTING 40,000 LBS FROM 6000 FT DEPTH. PHOTOGRAPHIC FACILITY. ENVIRONMENTAL PROTECTION MONITORING CAPABILITY. CDC-8090 COMPUTER/TERMINAL WITH A HIGH SPEED READER & LINE PRINTER, DIGITAL MAG TAPE & PAPER TAPE T/O ANALOG TAPE ADC & DAC CONVERSION & A PEN PLOTTER & TIE WITH CDC-6600.

and I am an in the second of t

INSTALLATION NAVAL CLOTHING AND TEXTILE RESEARCH UNIT NATICK, MS.

C.D. CDR J.L. POOK

| PROGRAM | PROGRAM DATA BY FISCAL YE 1972 (ACTUAL) (ACT | 1973 |
|--|--|---|
| TOTAL ROTEE TOTAL PROCUREMENT TOTAL OEM TOTAL OTHER TOTAL ANNUAL LAB | 0.558 0.020 0.607 0.020 1.205 | 0.682 0.080 0.645 0.022 1.429 |
| TOTAL INHOUSE TOTAL INHOUSE ROTGE ANNUAL OPERATING COST | 1.205 0.558 0.160 | 1.429 0.682 0.165 |

| | PERSONNEL DATA | (END OF FY | 1972) | |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 1 | 0 | 1 | 0 |
| CIVILIAN | 60 | 0 | 23 | 37 |
| TOTAL | 61 | 0 | 24 | 37 |

| ACRES | SPACE (THO | |) PROPERTY Square fea | EY) | COST (MILL | ION \$) |
|-------|------------|-------|--------------------------|--------|------------|---------|
| 2 | LAB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| | 10.000 | 7-000 | 3.000 | 20.000 | 0-275 | 0-600 |

...MISSION
CONDUCT RESEARCH, DEVELOPMENT, TEST, AND EVALUATION AND GIVE ENGINEERING
SUPPORT IN CLOTHING, TEXTILES, AND RELATED FIELDS ASSOCIATED WITH SERVICE
CLOTHING AND ENVIRONMENTAL AND SPECIAL PROTECTIVE CLOTHING

...CURRENT IMPORTANT PROGRAMS
EXTREME LOW-TEMPERATURE CLOTHING
STATIC-ELECTRICITY PROPENSITY OF CLOTHING
AIRCRAFT-CARRIER FLIGHT-DECK CLOTHING
COLD-WEATHER HANDWEAR
CRASH-CREW FIRE-PROTECTIVE CLOTHING

***FUNCTIONS/EQUIPMENT/CAPABILITIES
MAJOR FUNCTIONS:
CONDUCT ROT&E IN TEXTILE MATERIALS, LEATHER, PLASTICS, AND RUBBER
DEVELOP NAVY CLOTHING, ACCESSORIES, AND RELATED ITEMS
CONDUCT STUDIES IN ENVIRONMENTAL SCIENCES AND LIFE SUPPORT SYSTEMS
PREPARE SPECIFICATIONS FOR CLOTHING, TEXTILES, FOOTWEAR AND RELATED ITEMS
COORDINATE STANDARDIZATION IN CLOTHING
PROVIDE TECHNICAL SUPPORT TO ALL DOD AGENCIES IN NAVY CLOTHING AREAS
MAJOR EQUIPMENT AND FACILITIES
TEXTILE LABORATORIES
COLD TEST CHAMBERS
HYDRO-ENVIRONMENT SIMULATOR
HIGH-INTENSITY THERMAL TEST UNIT

THE THE SAME OF THE SAME FAILS, AND ASSESSED TO SAME TO SAME

C.D. CAPT N.J. KEENE

| PROGRAM | PROGRAM | DATA BY FISCA | AL YEAR (MILLION 1973 | \$) |
|-------------------|------------------|---------------------|--------------------------|--------------|
| PROGRAM | (| ACTUAL) | (ACT + EST) | |
| TOTAL ROTSE | • | 0.489 | 0.374 | |
| TOTAL PROCUREMENT | | 0.000 | 0.000 | |
| MAD JATOT | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.271 | 0.279 | |
| TOTAL ANNUAL LAB | | 0.760 | 0.653 | |
| TOTAL INHOUSE | | 0.742 | 0.639 | |
| TOTAL INHOUSE RDT | &E | 0.489 | 0.374 | |
| ANNUAL OPERATING | COST | 0.092 | 0.100 | |
| | PERSONNEL DAT | A (END OF F | Y 1972) | |
| PERSONNEL AU | ITHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 20 | 1 | 8 | 12 |
| CIVILIAN | 12 | 2 [.] 3 | 8 | 4 |
| TOTAL | 32 | 3 | 16 | 16 |
| | SP ACE | AND PROPERTY | Y | |
| ACRES SF | ACE (THOUSANDS | OF SQUARE FI | EET) COST | (MILLION \$) |
| | LAB ADMI | N OTHER | TOTAL REAL | • |
| 1 | 8.900 5.10 | 6.000 | 20.000 0 | .000 0.359 |

...MISSION
CONDUCT RESEARCH IN DENTAL PROBLEMS OF ORAL HEALTH IN NAVAL AND MARCORPS
PERSONNEL AND DELIVERY OF DENTAL CARE

...CURRENT IMPORTANT PROGRAMS

ORAL HEALTH OF NAVAL PERSONNEL

CHEM AND ENZYMOLOGY OF CARIES IN CARIES IMMUNE RECRUITS

BACTERIOLOGY OF SALIVA AND PLAQUE OF CARIES IMMUNE RECRUITS

SELF SUPPORTED MOBILE DENTAL VAN FOR FIELD AND GARRISON

HISTOPATHOLOGY OF DENTAL PULP AND TOOTH STRUCTURE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ASSESS DENTAL HEALTH STATUS OF RECRUITS IMPROVE DISEASE PREVENTION AND
CARE PROCEDURES INCREASE QUALITY AND QUANTITY OF CARE IN COMBAT TROOPS
INCLUDING FACIAL INJURIES DEFINE ORAL DISEASE ETIOLOGY AND DEVELOPMENT
OF SAFE THERAPEUTIC METHODS COMPUTERIZATION OF DENTAL PROCESSING
PROCEDURES TRACE ELEMENT ANALYSIS OF TOOTH STRUCTURE HISTOPATHOLOGICAL
EVALUATION OF ORAL TISSUE
AMINDACID ANALYZER ATOMIC ABSORPTION SPECTROPHOTOMETER FLUORIDE
ELECTRODE SCINTILLATION COUNTER MOBILE DENTAL TREATMENT UNIT
4K MEMORY CORE COMPUTER BACTERIAL TAXONOMY VACCINE PRODUCTION AND
TESTING DENTAL EQUIPMENT DESIGN AND FABRICATION

SAN DIEGO, CA.

INSTALLATION NAVAL ELECTRONICS LABORATORY CENTER

C.U. CAPT N.D. HARDING, JR. TECH. DIR. DR. C.E. BERGHAN

| | PROGRA | M DATA BY FISC | AL YEAR (MILLION | \$) |
|----------------|----------------|----------------|------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTGE | | 32.774 | 35.680 | |
| TOTAL PROCUREN | IENT | 5.498 | 5.332 | |
| TOTAL DEM | | 11.783 | 9.599 | |
| TOTAL OTHER | | 9.270 | 7-418 | |
| TOTAL ANNUAL L | . AB | 59.325 | 58.029 | |
| TOTAL INHOUSE | | 54.713 | 53.133 | |
| TOTAL INHOUSE | RDT&E | 29.981 | 32.477 | |
| ANNUAL OPERATI | ING COST | 12-866 | 12.960 | |
| | PERSONNEL D | ATA (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | YOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 94 | 2 | 66 | 28 |
| CIVILIAN | 1468 | 61 | 737 | 731 |
| TCTAL | 1562 | 63 | 803 | 759 |
| | SPA | CE AND PROPERT | · Y | |
| ACRE3 | SPACE (THOUSAN | • | | (MILLION \$) |
| - | LAB AD | MIN OTHER | TOTAL REAL | PROP EQUIP |
| 1591 | 461.555 157. | 531 221.523 | 840.609 11 | .077 36.203 |

...MISSION
TO BE THE PRINCIPAL NAVY ROTEF CENTER FOR ELECTRONICS TECHNOLOGY AND COMMAND CONTROL AND COMMUNICATIONS CONCEPTS AND SYSTEMS

***CURRENT IMPORTANT PROGRAMS
FLEET SATELLITE COMMUNICATION AND DIGITAL INFORMATION EXCHANGE SYSTEMS
MESSAGE PROCESSING AND DISTRIBUTION SYSTEM FOR CVAN 68 AND 69
IMPROVEMENT OF FBM COMMUNICATION SYSTEMS
OPERATIONAL APPLICATIONS OF ELECTRO-OPTICS
SYSTEM CONCEPTS FOR INTEGRATED WORLD WIDE OCEAN SURVEILLANCE SYSTEM

...FUNCTIONS/EQUIPMENT/COMPILITIES
FUNCTIONS ARE TO ESTABLISH AND MAINTAIN THE PRIMARY IN-HOUSE RESEARCH
AND DEVELOPMENT CAPABILITY FOR NAVY AND MARINE CORPS SYSTEMS AND
TECHNOLOGIES FOR COMMAND CONTROL AND COMMUNICATIONS, ELECTRONIC WARFARE
ELECTROMAGNETIC SURVEILLANCE, IDENTIFICATION, AND NAVIGATION.
FACILITIES INCLUDE: ADVANCED COMPUTER SCIENCE CENTER, MICROELECTRONICS
LAB, ENVIRONMENTAL TEST FACILITY, ELECTRO-OPTICS R&D LAB, MATERIALS
SCIENCE LAB, SIXTY FOOT TELESCOPE, ANTENNA MODEL RANGES, HUMAN FACTORS
LAB, SYSTEMS EVALUATION FACILITIES.

INSTALLATION NAVAL EXPLOSIVE ORDNANCE DISPOSAL FACILITY INDIAN HEAD, MD.

C.O. CAPT CHARLES K. NAYLOR TECH. DIR. LIONEL A. DICKINSON

| 800084# | PROGRAM DATA BY FISC | (AL YEAR (MILLION S) |
|-----------------------|----------------------|----------------------|
| PROGRAM | 1972 | |
| | (ACTUAL) | (ACT + EST) |
| TOTAL ROTEE | 1.532 | 1.613 |
| TOTAL PROCUREMENT | 2.245 | 2.048 |
| TOTAL OEM | 0.002 | 0.059 |
| TOTAL OTHER | 0.784 | 0.676 |
| TOTAL ANNUAL LAB | 4.563 | 4.396 |
| TOTAL INHOUSE | 3.097 | 3.345 |
| TOTAL INHOUSE RDT&E | 0.972 | 1.022 |
| ANNUAL OPERATING COST | 0.751 | 1.253 |
| 25050 | NAME OATA JEND OF | . 10731 |

| | PERSONNEL DATA | (END OF FY | Y 1972) | |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 73 | 0 | 56 | 17 |
| CIVILIAN | 152 | 1 | 17 | 135 |
| TOTAL | 225 | 1 | 73 | 152 |

| | | SPACE ANI | D PROPERTY | | | |
|-------|------------|------------|------------|---------|------------|----------|
| ACRES | SPACE (THO | DUSANDS OF | SQUARE FE | ET) | COST (WILL | .ION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 1084 | 50.771 | 19.797 | 43.335 | 113.903 | 2.851 | 2.439 |

...MISSION
UNDER THE MANAGERSHIP OF SECNAY CONDUCTS THE JOINT SERVICE ROTE, TECHNICAL INFORMATION, AND EQUIPMENT MANAGEMENT PROGRAMS FOR THE LOCATION, IDENTIFICATION, NEUTRALIZATION, AND DISPOSAL OF EXPLOSIVE LOADED ORDNANCE TO INCLUDE IMPROVISED DEVICES, SUPPORT OTHER GOVT AGENCIES

...CURRENT IMPORTANT PROGRAMS
JOINT SERVICE ROTGE IN EXPLOSIVE ORDNANCE DISPOSAL
JOINT SERVICE TECHNICAL INFORMATION IN EXPLOSIVE ORDNANCE DISPOSAL
NAVAL MINE LOCATION AND NEUTRALIZATION
INITIAL EXAMINATION OF FOREIGN EXPLOSIVE ORDNANCE AND IMPROVISED DEVICES
IMPROVISED EXPLOSIVE DEVICES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MULTIDISCIPLINARY ROTSE LABORATORY SPACES AND MODEL SHOPS
ORDNANCE EXAMINATION FACILITY WITH REMOTELY OPERATED EQUIPMENT AND AN
EXTENSIVE RADIOGRAPHIC CAPABILITY
MAN RATED TEMP CONTROLLED DIVING TANK, 137 METERS OF SEAWATER
EQUIPMENT DIVING TANK, 3000 METERS OF SEA WATER
INSTRUMENTED MINE RANGE
ORDNANCE LIBRARY

C.O. CAPT JESSE F. ADAMS

| | PRO | | FISCAL YEAR (| | |
|---------------|------------|---------------|---------------|------------|--------|
| PROGRAM | | 1972 | 1973 | 3 | |
| | | (ACTUAL) | (ACT + E | ST) | |
| TOTAL ROTEE | | 0.82 | 21 0. | .878 | |
| TOTAL PROCURE | MENT | 0.00 | | 000 | |
| TOTAL DEM | | 0.00 | | .005 | |
| TOTAL OTHER | | 0.36 | - | .370 | |
| TOTAL ANNUAL | LAB | 1.18 | | .253 | |
| TOTAL INHOUSE | | 1-18 | 19 | .253 | |
| TOTAL INHOUSE | | 0.82 | 21 0 | .878 | |
| ANNUAL OPERAT | ING COST | 0.21 | .6 0. | - 265 | |
| | PERSONNEI | DATA (END | OF FY 1972) | | |
| PERSONNEL | AUTHORIZED | TOTA | L TO | TAL | NON- |
| | STRENGTH | PHE | S PI | ROF | PROF |
| MILITARY | 37 | | 4 | 6 | 31 |
| CIVILIAN | 51 | | 2 | 11 | 40 |
| TOTAL | 88 | | | 17 | 71 |
| | : | SPACE AND PRO | PERTY | | |
| ACR ES | | SANDS OF SQUA | | COST (MILL | ION S) |
| - | L AB | | HER TOTAL | REAL PROP | EQUIP |
| 3 | 28.226 | | 590 52.47 | | 0.657 |

... MISSION CONDUCT RESEARCH DEVELOPMENT AND TESTING IN THE MEDICAL DENTAL AND ALLIED SCIENCES WITH PARTICULAR EMPHASIS ON PROBLEMS OF FIELD AND AMPHIBIOUS MEDICINE

... CURRENT IMPORTANT PROGRAMS TROOP HEAT ACCLIMATIZATION AND EVAL OF FIELD WATER PURIFICATION SYSTEMS RHABDOMYOLYSIS AND RESPIRATORY ILLNESS IN MARINE RECRUITS NGU AND GONORRHEA IN USMC PERSONNEL DEV OF MODULAR FIELD AND SHIPBOARD MEDICAL FACILITIES VECTOR CONTROL METHODS, EQUIPMENT AND SUPPLIES

... FUNCTIONS/EQUIPMENT/CAPABILITIES CONDUCT RESEARCH IN PROBLEMS OF FIELD AND AMPHIBIOUS MEDICINE, DEVELOP TEST AND EVALUATE MEDICAL EQUIP AND SUPPLIES AND CLOTHING AND EQUIPMENT FOR USMC PERSONNEL USE AND PROTECTION PRIMARY CAPABILITIES IN APPLIED RESEARCH SPECIFICALLY IN AREAS OF BACT. PHYSIOLOGY, STRESS PHYSIOLOGY, ENTOMOLOGY, ENVIRON BIOLOGY. VIROLOGY, FIELD MEDICAL EQUIP, BIOCHEMISTRY AND ANIMAL INVESTIGATIONS. MAJOR EQUIP OLFACTOMETER, BLAST FACILITY, BALLISTIC RANGE, HIGH SPEED BECKMAN CAMERA, FREQUENCY COUNTERS, MATERIALS LAMINATING PRESS AND SEALERS, SEWING EQUIP SHOP MACHINERY, 2-MAN RESP DISEASE ENVIRON CHAMBER, CLIMATIC CHANBER, SMALL LOW PRESSURE AND LOW TEMP CHAMER, AUTOANALYZER, OXYGEN ANALYZER, MULTIPLE PHYSIOLOGIC DATA RECORDER, ELECTRONIC PROGRAMMER, FLUOROMETERS, RESPIROMETER, GAS PARTITIONER, PYRHELIOGRAPH, UNRESTRICTED PHOTO CAPABILITY

C.O. CAPT TOR RICHTER

| PROGRAM | PROGRAM DATA BY 1972 | FISCAL YEAR | |
|-----------------------|-------------------------|----------------|-----------|
| FROOTAIN | (ACTUAL) | (ACY + E | . • |
| TOTAL ROTEE | 4.3 | | 5-546 |
| TOTAL PROCUREMENT | 0.0 | | 0.000 |
| TOTAL OEM | 0.00 | | 0.000 |
| TOTAL OTHER | 2.2 | - - | 2.620 |
| TOTAL ANNUAL LAB | 6.54 | | 8.166 |
| | ••• | ,, | |
| TOTAL INHOUSE | 6.5 | F4 | 3.166 |
| TOTAL INHOUSE ROTEE | 4.3 | | 5.546 |
| ANNUAL OPERATING COST | 1.2 | | 1.200 |
| PER! | SONNEL DATA (END | OF FY 1972) | |
| PERSONNEL AUTHOR | IZED TOTA | AL T | DTAL NGN- |
| STRE | NGTH PHI | DS 1 | PROF PROF |
| MILITARY | 204 | 48 | 106 98 |
| CIVILIAN | 207 | 25 | 73 134 |
| TOTAL | 611 | 73 | 179 232 |

SPACE AND PROPERTY

ACRES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

4 151.730 21.561 26.590 199.881 4.016 0.623

...MISSION
CONDUCT BASIC AND APPLIED RESEARCH AND
DEVELOPMENT CONCERNED WITH THE HEALTH
SAFETY AND EFFICIENCY OF NAVAL
PERSONNEL

...CURRENT IMPORTANT PROGRAMS
TISSUE TYPING ORGAN TRANSPLANTS AND IMMUOSUPPRESSION IN RESTORATIVE SURG VACCINE DEV FOR CONTROL OF MALARIA AND SCHISTOSOMIASIS
HEAT AND COLD STRESS IN HYPERBARIC AND HIGH HUMIDITY ENVIRONMENTS
BEHAVIORAL IN HYPERBARIC ENVIRONMENTS
DEVELOP AND EVALUATE MEDICAL PERSONNEL TRAINING PROGRAMS

DISCIPLINES AFFECTING HUMAN HEALTH SAFETY AND PERFORMANCE INCLUDING HUMAN ENVIRONMENTAL STRESS FACILITIES INCLUDING HUMAN ENVIRONMENTAL STRESS FACILITIES INCLUDING HYPERBARIC CHAMBER COMPLEX TRANSMISSION AND SCANNING ELECTRON MICROSCOPES TISSUE PRESERVATION AND TRANSPLANTATION CAPABILITIES RESEARCH BIOCHEMISTRY EXPERIMENTAL ANIMAL FACILITIES AND ANIMAL HOUSE

C.O. CAPT DOR. TENEYCK

| PROGRAM | PROGRAM DATA BY FISCA 1972 | L YEAR (MILLION \$) 1973 |
|-----------------------|-------------------------------|-----------------------------|
| | (ACTUAL) | (ACT + EST) |
| TOTAL ROTGE | 0.047 | 0.055 |
| TOTAL PROCUREMENT | 0.000 | 0.000 |
| TOTAL GEM | 0.000 | 0.000 |
| TOTAL OTHER | 0.221 | 0.235 |
| TOTAL ANNUAL LAB | 0.268 | 0.290 |
| TOTAL INHOUSE | 0.268 | 0.290 |
| TOTAL INHOUSE ROTEE | 0.047 | 0.055 |
| ANNUAL OPERATING COST | 0.030 | 0.030 |

| | PERSONNEL DATA | (END OF F' | Y 1972) | |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 16 | 4 | 5 | 11 |
| CIVILIAN | 2 | 0 | 0 | 2 |
| TOTAL | 18 | 4 | 5 | 13 |

| | | SPACE AND | PROPERTY | | | |
|-------|------------|-----------|------------|-------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEF | TI | COST (MILL | ION \$) |
| | l. AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 0 | 0.000 | 0.360 | 0.000 | 0.369 | 0.000 | 0.000 |

...MISSION
TO CONDUCT BASIC RESEARCH IN THE BIUMEDICAL SCIENCES, PROVIDE ESSENTIAL INFORMATION ON MEDICAL PROBLEMS OF MILITARY SIGNIFICANCE AND PROVIDE TRAINING IN RESEARCH TECHNIQUE

...CURRENT IMPORTANT PROGRAMS
IMPROVED MICROBIOLOGICAL DIAGNOSTIC TECHNIQUES
NEISSERIA REPOSITORY AND RESEARCH
COCCIDOMYCOSIS VACCINE
HAZARDS OF DEEP WATER SUBMERGENCE
GENETICS OF VIRUS SURVIVAL

***SECTIONS SEQUIPMENT/CAPABILITIES BACTERIOLOGY, VIROLOGY AND OTHER FIELDS RELATIVE TO PROBLEMS OF DISEASES OF MILITARY IMPORTANCE. STUDY ENVIRONMENTAL FACTORS AFFECTING HOST RESPONSE TO INFECTION AND INVESTIGATE SPECIFIC AND NONSPECIFIC HOST RESPONSE TO INFECTION. IMMUNOLOGIC AND PHYSIOLOGIC STUDIES ON MENIGITIS. TEST AND IMPROVE COCCIDIOIDES VACCINE. DEVELOP RAPID DIAGNOSTIC PROCESS FOR ARBO AND RESPRIATORY VIRUSES. STUDY OF OCEAN ENVIRONMENT RELATIVE TO NAVAL TECHNICAL PROGRAMS.

32.780

2

C.O. CAPT R.H. WATTEN CHIEF SCIENTIST R.Q. BLACKWELL

| PROGRAM | PROGRAM DA | ATA BY FISCAL | L YEAR (MILLION 1973 | \$1 |
|---------------|------------------|---------------|----------------------|--------------|
| FILOGICAN | 1 41 | | (ACT + EST) | |
| TOTAL ROTGE | • | 1.489 | 1.559 | |
| TOTAL PROCURE | MENT | 0.000 | 0.000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.546 | 0-607 | |
| TOTAL ANNUAL | LAB | 2.035 | 2.166 | |
| TOTAL INHOUSE | | 2.035 | 2-166 | |
| TOTAL INHOUSE | RDT&E | 1.489 | 1.559 | |
| ANNUAL OPERAT | ING COST | 0.500 | 0.500 | |
| | PERSONNEL DATA | (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 35 | 13 | 30 | 5 |
| CIVILIAN | 9 | 2 | 5 | 4 9 |
| TOTAL | 44 | 15 | 35 | 9 |
| | SPACE | AND PROPERTY | | |
| ACRES | SPACE (THOUSANDS | OF SQUARE FE | ET) COST | (MILLION \$) |
| | LAB ADMIN | OTHER | TOTAL REAL | PROP EQUIP |

...MISSION
CONDUCT RESEARCH AND DEVELOPMENT IN THE BIOMEDICAL SCIENCES PROVIDE DATA
ON DISEASES AND MEDICAL PROBLEMS OF MILITARY SIGNIFICANCE. RECOMMEND
CONTROL MEASURES AND PROVIDE TRAINING IN R&D TECHNIQUES

17-826

89.280

0.101

0.890

38.674

...CURRENT IMPORTANT PROGRAMS
INFLUENCE OF NUTRITION ON SUSCEPTIBILITY OF INFECT DIS MORB PERFORMANCE
STUDIES OF CAPILLARIASIS IN THE PHILIPPINES
SCHISTOSOMIASIS IN SULAWESI IN INDONESIA
ETIOLOGY OF FEBRILE ILLNESSES IN INDONESIA
INFLUENZA SURVEILLANCE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CLINICAL STUDY OF DIAGNOSIS AND TREATMENT OF TROPICAL DISEASE AND
EPIDEMIOLOGICAL STUDY OF INFECTIOUS DISEASES. COMPLETE RADIOISOTOPE
EQUIPMENT AND COMPUTER CAPABILITY PROFICIENCY IN CLINICAL INVESTIGATION
MICROBIOLOGY MEDICAL PHYSICS MEDICAL ECOLOGY BIOCHEMISTRY PATHOLOGY
ANIMAL FACILITY

A STATE OF THE PARTY OF THE PAR

C.O. CAPT HENRY A. SPARKS

| | PRO | | | EAR (MILLION | 1 \$) |
|-----------------|-------------|-------------|------------|--------------|-------------|
| PROGRAM | | 1972 | | 1973 | |
| | | (ACTUAL |) (AC | T + EST) | |
| TOTAL ROTGE | | 0. | 758 | 0.675 | |
| TOTAL PROCUREM | EMT | 0. | 873 | 0.619 | |
| TOTAL OGM | | 0. | 000 | 0.000 | |
| TOTAL OTHER | | 0. | 233 | 0,260 | |
| TOTAL ANNUAL L | AB | | 864 | 1.554 | |
| TOTAL INHOUSE | | i. | 864 | 1-554 | |
| TOTAL INHOUSE | RDT&E | 0. | 758 | 0.675 | |
| ANNUAL OPERATIO | NG COST | 0. | 341 | 0.419 | |
| | PERSONNE | L DATA (EN | D OF FY 19 | 72) | |
| PERSONNEL | AUTHORIZED | TO | TAL | TOTAL | NON- |
| | STRENGTH | P | HDS | PROF | PROF |
| MILITARY | 31 | | 8 | 12 | 19 |
| CIVILIAN | 108 | | 4 | 4 | 104 |
| TOTAL | 139 | | 12 | 16 | 123 |
| | | SPACE AND P | ROPERTY | | |
| ACRES | SPACE (THOU | SANDS OF SQ | UARE FEET) | COST | (MILLION S) |
| | L AB | | | _ | PROP EQUIP |
| 3 | 18.242 | 9.500 | 2.300 | 30.042 | 0.344 0.790 |

...MISSION
RESEARCH INTO CAUSES, PATHOGENES, EPIDEMIOLOGY, PREVENTION AND TREATMENT ENDEMIC DISEASES IN EGYPT, MORTH AFRICA AND THE MIDDLE EAST AND THE CONDUCT OF COLLABORATIVE EDUCATIONAL PROGRAMS WITH BIOMEDICAL SCIENTISTS IN EGYPT

...CURRENT IMPORTANT PROGRAMS
MENINCOOODOAL VACCINE STUDY
SCHISTOSOMIASIS PATHOPHYSIOLOGY OF
RELAPSING FEVER TREATMENT OF
ARTHROPOD VIRUS ISOLATIONS TICKS AND MOSQUITCES
THERAPEUTIC DRUG STUDY OF INFECTIOUS DISEASES

***FUNCTIONS/EQUIPMENT/CAPABILITIES
TECHNON TISSUE PROCESSOR HEWLETT-PACKARD MODEL 9100 CALCULATOR PICKER
NUCLEAR MAGNASCANNER RENALTRON 4 ATOMIC ABSORPTION SPECTROPHOTOMETER
UNICAN UV SPECTROPHOTOMETER GAS CHROMOTOGRAPH COULTER BLOOD CELL COUNTER
X-RAY APPARATUS CARDIOGRAPH ELECTRONIC CALCULATOR WANG FLUORESCENT
MICROSCOPE GUILFORD MODEL 240 SPECTROPHOTOMETER ANSCO AUTOCLAVES
SPECTROPHOTOMETERS CENTRIFUGES ANALYTICAL SCANNER AND INTERGRATION
FREEZERS REVCO X-RAY FLUORESCENT SPECTROMETER BALANCES NETTLER
FLUOROMETER CLIMATIZER WALK 12 REFRIGERATOR AND FREEZER PATIENTS WARD TO
HOSPITALIZE SICK EGYPTIANS PUBLIC WORKS FACILITY WORLD'S MOST COMPLETE
TICK COLLECTION MODERN LABORATORY TO STUDY DISEASES IN EGYPT AND A
RESEARCH DETACHMENT IN ETHIOPIA THAT IS ALSO MODERN AND WELL EQUIPPED
AND WITH WARD SPACES AT THE NEARBY ST. PAUL'S HOSPITAL

LAB 22.053

C.O. CAPT C. H. MILLER

| | PROGRAM | DATA BY FISCA | L YEAR (MILLION \$ |) |
|---------------|------------------|---------------------|--------------------|-------------|
| PROGRAM | | 1972 | 1973 | |
| | (| ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 0.760 | 0.714 | |
| TOTAL PROCURE | MENT | 0.000 | 0.000 | |
| M30 JATOT | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.380 | 0.402 | |
| TOTAL ANNUAL | LAB | 1.140 | 1.116 | |
| | | | | |
| TOTAL INHOUSE | | 1.140 | 1-116 | |
| TOTAL INHOUSE | RDT&E | 0.760 | 0.714 | |
| ANNUAL OPERAT | | 0.214 | 0.255 | |
| | | ***** | 00200 | |
| | PERSONNEL DAT | A (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 38 | | 14 | 24 |
| CIVILIAN | 41 | 5 2 [.] | 17 | 24 |
| TOTAL | 79 | 7 | 31 | 48 |
| TOTAL | , , | • | 21 | 40 |
| | SPACE | AND PROPERTY | , | |
| ACRES | SPACE (THOUSANDS | OF SQUARE FE | ET) COST (| HILLION \$) |
| | LAB ADMI | IN OTHER | TOTAL REAL PR | OP EQUIP |

---MISSION

CONDUCT R AND P IN BIGMED SCI PROVIDE DATA ON DISEASE AND MED PROB OF MIL IMPORT RECOMMEND CONTROL MEASURES FOR COMMUN DISEASE PROV TRAIN IN RSCH TECH RSCH IN ETIOLOGY TRANS CONTROL AND TREAT OF COMMUN RESPIR DISEASE AID MED ACT TO EPIDEMIC RESPIR DISEASE STUD MED PROB OF RECRUIT

18.975

57.744

0.387

0.440

---CURRENT IMPORTANT PROGRAMS
FACTORS INFLUENCING INTERFERON RESPONSE
ETIOLOGIC AGENTS OF RESPIRATORY DISEASE IN RECRUITS
MOST STUDIES OF ILLNESS SUSCEPTIBILITY
EVAL ANTIBACTERIAL AGENTS TO ELIMINATE MENINGOCOCCI IN NASOPHARYNX
EVAL VARIOUS INFLUENZA VACCINE IN RECRUITS

16.716

...FUNCTIONS/EQUIPMENT/CAPABILITIES
INCUBATORS REFRIGERATION UNITS ULTRACENTRIFUGE LIQUID SCINTILLATION
SYSTEM OSCILLATOR SPECTROPHOTOMETERS ELECTRON SCOPE GAS CHROMATOGRAPH
RESEARCH IN ETOL AND CONTROL OF COMMUNICABLE DISEASE MYCOPLASMA
BACTERIOLOGY BIOCHEMISTRY BIOMETRICS EPIDEMIOLOGY IMMUNOLOGY AND
VIROLOGY

C.O. CAPT E.E. IRISH

| | PROGRAM | DATA BY FISCA | L YEAR (MILLION | \$1 |
|----------------|-----------------|----------------|-----------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&F | | 32.629 | 40 - 206 | |
| TOTAL PROCUREM | ENT | 11.354 | 15.092 | |
| M&O JATOT | | 13.282 | 35.738 | |
| TOTAL OTHER | | 9-429 | 9.405 | |
| TOTAL ANNUAL L | AB | 66.694 | 80.441 | |
| TOTAL INHOUSE | | 54.030 | 61.648 | |
| TOTAL INHOUSE | RDT&E | 24.472 | 30.743 | |
| ANNUAL OPERATI | NG COST | 14.895 | 17.810 | |
| | PERSONNEL DA | | (1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 638 | 0 | 134 | 504 |
| CIVILIAN | 1691 | 7 | 521 | 1170 |
| TOTAL | 2329 | 7 | 655 | 1674 |
| | SPAC | E AND PROPERTY | 1 | |
| ACRES | SPACE (THOUSAND | S OF SQUARE FI | EET) COST | (MILLION \$) |
| | LAB ADM | IN OTHER | TOTAL REAL | PROP EQUIP |
| 4 | 110.756 169.5 | 569 754.611 | 1034.936 25 | .973 39.490 |

---MISSION
TO PERFORM TEST, EVALUATION, DEVELOPMENT SUPPORT AND EXERCISE ENGINEERING COGNIZANCE AS ASSIGNED OF NAVAL WEAPONS SYSTEMS AND RELATED DEVICES

...CURRENT IMPORTANT PROGRAMS
F-14A/PHOENIX DEVELOPMENT TESTING
AIRBORNE ELECTRONIC COUNTERMEASURE R&D
ENGINEERING COGNIZANCE OF AIR LAUNCHED WEAPONS
AIR-TO-AIR, AIR-TO-SURFACE MISSILE PRODUCTION TESTING
T AND E OF AERIAL AND SURFACE TARGETS

PERFORM TESTS AND CONDUCT TECH EVALUATIONS OF NAVAL AIRZORNE WEAPONS GUIDED MISSILE SUBSYSTEMS AND RELATED SUPPORT EQUIP, PERFORM BTS TRIPS FOR INTERRELATED AIRBORNE WEAPONS SYSTEMS, PERFORM PROD MONITORING TESTS OF GUIDED MISSILE LOTS&PROVIDE ENG.COGNIZANCE AND FIELD ENG SERVICES ON ASSIGNED OPERATIONAL AIRBORNE WEAPONS AND TARGET SYSTEMS&PROVIDE ENGINEERING MANAGEMENT AND SUPPORT FOR FW EQUIPMENT DURING DEV. AND DEPLOYMENT PERFORM DEV. T&E OF AIRBORNE AND-SURFACE TARGET SYSTEMS MAJOR FAC:TEST OPERATIONS FAC ROCKET ENGINE TEST FAC INTEGRATED SYSTEMS SIMULA TION FAC TARGETS FAC, PHOTOGRAPHICS FAC INFRARED LASER END OPTICS LAB

C.O. CAPT ROBERT WILLIAMSON II TECH. DIR DR. G.K. HARTMANN

| 0000048 | PROGRAM D | ATA BY FISCA | AL YEAR (MILLION 1973 | \$) |
|---------------|------------------|--------------|-----------------------|--------------|
| PROGRAM | | | | |
| | (A | CTUAL | (ACT + EST) | |
| TOTAL ROTGE | | 78-696 | 86-471 | |
| TOTAL PROCURE | MENT | 12.859 | 11-147 | |
| TOTAL OSM | | 3.794 | 2.920 | |
| TOTAL OTHER | | 5.801 | 6.618 | |
| TOTAL ANNUAL | LABI | 101-150 | 107-156 | |
| TOTAL INHOUSE | | 62.010 | 62.567 | |
| TOTAL INHOUSE | RDT&E | 43.332 | 46.141 | |
| ANNUAL OPERAT | ING COST | 23.313 | 23.154 | |
| | PERSONNEL DATA | (END OF FY | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 53 | 1 | 27 | 26 |
| CIVILIAN | 2847 | 137 | 1144 | 1703 |
| TOTAL | 2900 | 138 | 1171 | 1729 |
| | SPACE | AND PROPERTY | Y | |
| ACRES | SPACE (THOUSANDS | | | (MILLION \$) |
| = • | LAB ADMIN | | TOTAL REAL F | |
| 1059 | 388.021 178.085 | | | 618 34.165 |

...MISSION
TO BE THE PRINCIPAL NAVY ROTGE CENTER FOR ORDNANCE TECHNOLOGY CONCEPTS
AND SYSTEMS.CAPABILITIES FOR STRATEGIC SYSTEMS, NAVAL MINE SYSTEMS, MULTI
MEDIA WEAPONS SYSTEMS, DIRECTED ENERGY SYSTEMS, FUZE DEVEL, INSHORE WARFAR
ORDNANCE, SMALL CRAFT ARMAMENT, SWIMMER WEAPONS SYTEMS, ORD. TECHNOLOGY

...CURRENT IMPORTANT PROGRAMS
TORPEDD MK48-1
CAPTOR DEVELOPMENT
HIGH ENERGY LASER RESEARCH AND DEVELOPMENT
NUCLEAR WEAPON EFFECTS RESEARCH INCLUDING VULNERABILITY AND HARDENING
REENTRY VEHICLES MATERIALS

ALEN IN CONTRACTOR FOR THE SAME OF THE SAM

C.O. CAPT H.E. DAVIES, JR. CHIEF ENG. DR. W.W. BOHN

| | PROGR AM | | L YEAR (MILLION \$) |
|--------------|---------------|--------------|---------------------|
| PROGRAM | | 1972 | 1973 |
| | (| ACTUAL) | (ACT + EST) |
| TOTAL ROTEE | | 1.206 | 0.854 |
| TOTAL PROCUR | EMENT | 0.780 | 0.110 |
| TOTAL DEM | | 0.025 | 0.000 |
| TOTAL OTHER | | 1.739 | 2.627 |
| TOTAL ANNUAL | L.AB | 3.750 | 3.591 |
| TOTAL INHOUS | 2 | 3.452 | 3.248 |
| TOTAL INHOUS | | 1.206 | 0.854 |
| ANNUAL OPERA | TING COST | 0.833 | 0.850 |
| | PERSONNEL DAT | A (END OF FY | 1972) |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL |

| PERSONNEL | AUTHORIZED STRENGTH | TOTAL PHDS | TOTAL PROF | NON- |
|-----------|------------------------|---------------|---------------|------|
| MILITARY | 51 KENGI H 178 | Pnu3 1 | 46 | 132 |
| CIVILIAN | 83 | ĩ | 5 | 78 |
| TOTAL | 261 | 2 | 51 | 210 |

| ACR ES | SPACE (THO | | D PROPERTY Square fe | | COST (MILL | ION \$) |
|--------|------------|--------|-------------------------|---------|------------|---------|
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 112 | 84.310 | 30-540 | 238-950 | 353.800 | 6.670 | 3.487 |

SUPPORT THE NAVY GUIDED MISSILE AND ROCKET PROGRAM INCLUDING GROUND AND FLIGHT TESTINGS PARTICIPATE IN THE OPERATION OF THE DEPT OF DEFENSE INTEGRATED MISSILE TEST RANGE AT WHITE SANDS

...CURRENT IMPORTANT PROGRAMS STANDARD MISSILE 2 SLANT AEGIS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FLIGHT TEST TALOS TERRIER TARTAR STANDARD SURFACE TO AIR GUIDED MISSILES
FLIGHT TEST STANDARD ANTI RADIATION MISSILE AIR TO SURFACE
LAUNCH AEROBEE 150 170 AND 350 SOUNDING ROCKETS FOR UPPER ATMOS STUDY
CONDUCT NAVY AIR WEAPON (BOMB) TESTS
CONDUCT FEASIBILITY TEST FOR LOW ALTITUDE SUPERSONIC TARGET
CONDUCT TESTS OF ISSMC PROGRAM

COST (MILLION \$)

0.652

EQUIP

0.450

TOTAL REAL PROP

26.279

C.O. CAPT AL BLANKS TECH. DIR. E.M. RAMRAS

LAB

22.156

ACRES

| | PRUGRAM | DATA BY FISCAL | | \$) |
|----------|---------------|----------------|------------|------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) (| ACT + EST} | |
| TOTAL RE | T&E | 2.284 | 3-227 | |
| TOTAL PI | ROCURÉMENT | 0.320 | 0.320 | |
| TOTAL DE | i.M | 0.650 | 0.466 | |
| TOTAL OF | HER | 0.419 | 0.475 | |
| TOTAL A | INUAL LAB | 3.673 | 4.488 | |
| | | | | |
| TOTAL IN | HOUSE | 3.600 | 4.372 | |
| TOTAL IN | IHOUSE RDT&E | 2.211 | 3.111 | |
| ANNUAL (| PERATING COST | 0.520 | 0.665 | |
| | PERSONNEL DA | TA (END OF FY | 10721 | |
| PERSONNE | | TOTAL | TOTAL | NON- |
| LINGUINI | SYRENGTH | PHDS | PROF | PROF |
| MILITARY | | 0 | 41 | 2 |
| CIVILIAN | | 15 | 120 | 77 |
| TOTAL | 240 | 15 | 161 | 79 |
| | en se | F AND DOORSTY | | |
| | SPAC | E AND PROPERTY | | |

...MISSYON
CONDUCT REARCH DEVELOPMENT TEST EVALUATION BEHAVIOR AND SOCIAL SCIENCES
AND RELATED FIELDS DIRECTED TOWARD NEW AND IMPROVED PERSONNEL AND
MANPOWER SYSTEMS TECHNIQUES AND OPERATIONS

OTHER

1.420

...CURRENT IMPORTANT PROGRAMS
ENLISTED OCCUPATIONAL DATA BANK
COMBAT SYSTEMS MAINTENANCE MANAGEMENT CONCEPTS
MANPOWER PLANNING AND ALLOCATION TECHNOLOGY
SHIP SIMULATION MODELING TECHNOLOGY FOR MAN MAN MACHINE TRADE OFFS
IMPACT OF INCREASING PREFERENCE OPTIONS IN USMC

SPACE (THOUSANDS OF SQUARE FEET)

ADMIN

2.703

...FUNCTIONS/EQUIPMENT/CAPABILITIES

OCCUPATIONAL ANALYSIS CAREER STRUCTURES MAN MACHINE SYSTEMS MANPOWER
REQUIREMENTS ORGANIZATIONAL EFFECTIVENESS RECRUITMENT PROCUREMENT
MANPOWER PERSONNEL COSTS ATTITUDES MOTIVATION SIMULATION MODELING
RCA 301 COMPUTER IBM 1050 TELEPROCESSING TERMINAL WITH REMOTE JOB
ENTRY CABILITY TO A IBM 360/91 AT APPLIED PHYSICS LABORATORY JOHN
HOPKINS UNIVERSITY AND 360/67 AT NAVAL POST GRAD SCHOOL MONTEREY DATA
100 DATA BATCH PROCESSING TERMINAL TO JOHN HOPKINS OPSCAN 100DC

47.300

C.O. CAPT F.L. NELSON TECH. DIR. DR. EARL I. JONES

| | PROGRAM I | | L YEAR [MILLION ! | 5) |
|---------------|------------------|--------------|-------------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | () | ACTUAL) | (ACT + EST) | |
| TOTAL RDTEE | | 3.340 | 4.010 | |
| TOTAL PROCURE | MENT | 0.000 | 0.080 | |
| TOTAL OGM | | 0.093 | 0.085 | |
| TOTAL OTHER | | 0.538 | 0.646 | |
| TOTAL ANNUAL | LAB | 3.971 | 4.821 | |
| TOTAL INHOUSE | | 3.971 | 4.263 | |
| TOTAL INHOUSE | RDT&E | 3.340 | 3.452 | |
| ANNUAL OPERAT | ING COST | 0.467 | 0.433 | |
| | PERSONNEL DATA | A (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 34 | 0 | 34 | 0 |
| CIVILIAN | 165 | 35 | 98 | 67 |
| TOTAL | 199 | 35 | 132 | 67 |
| | SPACE | AND PROPERTY | , | |
| ACRES | SPACE (THOUSANDS | OF SQUARE FE | ET) COST | (MILLION \$) |
| | LAB ADMI | N OTHER | TOTAL REAL PI | ROP EQUIP |

-..MISSION
PLANS AND CONDUCTS RESEARCH AND DEVELOPMENT IN PERSONNEL OPERATIONS AND BEHAVIORAL SCIENCES TO DEVELOP NEW CONCEPTS AND IMPROVED METHODS FOR ACQUIRING, CLASSIFYING, TRAINING, DISTRIBUTING, AND RETAINING PERSONNEL AND FOR MAXIMIZING THE UTILIZATION OF NAVY MANPOWER RESOURCES.

0.000

52.200

0.210

0.289

...CURRENT IMPORTANT PROGRAMS
INSTRUCTIONAL DESIGN AND EXPERIMENTAL TRAINING
COMPUTERIZED MANPOWER MANAGEMENT RESEARCH
PERSONNEL MEASUREMENT, CLASSIFICATION, ASSIGNMENT, AND RETENTION
EDUCATIONAL TECHNOLOGY AND ADVANCED INSTRUCTIONAL SYSTEMS
METHODOLOGY FOR DATA PROCESSING AND RESEARCH DESIGN

4.900

...FUNCTIONS/EQUIPMENT/CAPABILITIES
IBM 1130 DATA PROCESSING COMPUTER SYSTEM WITH REMOTE JOB ENTRY CAPABILITY TO A IBM 360/65 LOCATED AT THE NAVY ELECTRONICS LABORATORY CENTER OPTICAL SCANNER
EXPERIMENTAL TESTING AND TRAINING FACILITIES
PLATO STATIONS PLANNED FOR DECEMBER 1972

3986

4100

CIVILIAN

TOTAL

NON-PROF 105

2510

2615

DIR. CAPT EARLE W. SAPP DIR. OF RESEARCH DR. ALAN BERMAN

| | | | FISCAL YEAR (MILL | ION \$) |
|---------|----------------|---------------|-------------------|---------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL R | DT&E | 120.0 | 57 131.169 |) |
| TOTAL P | ROCUREMENT | 16.9 | 12 14.528 | } |
| TOTAL O | M.3 | 6.5 | 44 3.557 | • |
| TOTAL O | THER | 2.10 | 65 2.28 | 5 |
| TOTAL A | NNUAL LAB | 145.6 | 78 151.539 |) |
| TOTAL I | NHOUSE | 140.0 | 48 149.499 |) |
| TOTAL I | NHOUSE ROTEE | 114-4 | 27 129.129 |) |
| ANNUAL | OPERATING COST | 28.8 | 97 30.520 |) |
| | PERSON | NEL DATA (END | OF FY 1972) | |
| PERSONN | EL AUTHORIZE | | | |
| | STRENGT | H PHI | DS PROF | |
| MILITAR | Y 114 | | 3 9 | |
| | | | | |

| | | SPACE AN | D PROPERTY | 1 | | |
|-------|------------|----------|------------------|-----------------------|-----------|--------|
| ACRES | SPACE (TH | | | | COST (M.L | : |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 2161 | 2241 - 527 | 135_662 | 644 <u>.</u> 139 | 3041 ₋ 32# | ツブ・クムブ | 50_343 |

519

522

1476

1485

...MISSION
TO CONDUCT SCIENTIFIC RESEARCH AND DEVELOPMENT IN THE PHYSICAL SCIENCES
AND RELATED FIELDS DIRECTED TOWARD NEW AND IMPROVED MATERIALS,
EQUIPMENT, TECHNIQUES, AND SYSTEMS FOR THE NAVY

...CURRENT IMPORTANT PROGRAMS
FLEET SATELLITE COMMUNICATIONS
COMMUNICATIONS SECURITY
HIGH ENERGY LASER GENERATION, PROPAGATION, AND LASER EFFECTS PROGRAM
SATELLITE PROGRAMS
ADVANCED ACOUSTIC ANTI-SUMARINE WARFARE SURVEILLANCE PROGRAM

PRINCIPAL RESEARCH AND DEVELOPMENT LABORATORY OF THE NAVY. PRIMARY AREAS ARE MATERIALS SCIENCE AND TECHNOLOGY, SPACE SCIENCE AND TECHNOLOGY, RADAR, ELECTRONIC WARFARE, LASER TECHNOLOGY, OPTICS, OPTICAL WARFARE, ELECTRONIC DEVICES, PLASMA AND NUCLEAR PHYSICS, INTELLIGENCE SUPPORT, UNDERSEA SURVEILLANCE, OCEAN SCIENCE AND TECHNOLOGY. MAJOR FACILITIES INCLUDE TWO SHIPS FOR ACOUSTIC ASW RESEARCH, OCEANOGRAPHY, AND DEEP OCEAN SEARCH. MAJOR ACOUSTIC STANDARD AND CALIBRATION FACILITIES. HIGH LEVEL RADIATION LABORATORY. THREE NUCLEAR PARTICLE ACCELERATORS. DIVERS HIGH ENERGY LASERS. 200 KILDGAUSS HIGH FIELD MAGNET FACILITY. SPACE SIMULATION FACILITIES

C.O. CAPT L.O.G. WHALEY TECH. DIR. GERALD G. GOULD

| | PRO | | | CAL YEAR (MI | LLION \$ | ;) |
|---------------|-------------|----------|-----------|--------------|-----------|--------------|
| PROGRAM | | 1 | 972 | 1973 | | |
| | | (ACT | 'UAL') | (ACT + 形ST | () | |
| TOTAL ROTGE | | | 7.380 | 9.7 | 129 | |
| TOTAL PROCURE | MENT | | 0.286 | 0.8 | 166 | |
| MAG JATOT | | | 2.269 | 2.4 | 40 | |
| TOTAL OTHER | | | 4-635 | 3.3 | 186 | |
| TOTAL MINUAL | LAB | | 14.570 | 16.4 | 21 | |
| TOTAL INHOUSE | | | 13.342 | 15.1 | 52 | |
| TOTAL INHOUSE | RDT&E | | 6.301 | 8.6 | 12 | |
| ANNUAL OPERAT | ING COST | | 4.769 | 5.2 | !96 | |
| | PERSONNE | L DATA | (END OF | FY 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOTA | AL. | NON- |
| | STRENGTH | | PHDS | PRO |)F | PROF |
| MILITARY | 138 | | 2 | 19 | 5 | 123 |
| CIVILIAN | 587 | | 17 | 240 |) | 347 |
| TOTAL | 725 | | 19 | 259 | 5 | 470 |
| | | SPACE AN | ID PROPER | TY | | |
| ACRES | SPACE (THOU | SANDS OF | SQUARE | FEET) | COST (| (MILLION \$) |
| | L AB | | OTHER | | REAL PR | ROP EQUIP |
| 674 | 172.445 | 35-296 | 329-707 | 537.448 | 14-9 | 62 11-013 |

...MISSION
TO BE THE PRINCIPAL NAVY ROTGE CENTER FOR THE APPLICATION OF SCIENCE
AND TECHNOLOGY ASSOCIATED WITH MILITARY OPERATIONS CARRIED OUT PRIMARILY IN THE COASTAL REGION, AND TO PERFORM INVESTIGATIONS IN RELATED
FIELDS OF SCIENCE AND TECHNOLOGY.

...CURRENT IMPORTANT PROGRAMS
COASTAL TECHNOLOGY SUPPORTING MARINE CORPS, AMPHIBIOUS MINE COUNTER
MEASURES & INSHORE WARFARE OPERATIONS. DETECTION AND CLASSIFICATION OF
UNDERWATER OBJECTS. THEORY AND TACTICAL DOCTRINE FOR MINE COUNTER
MEASURES. INTEGRATED SWIMMER DIVER SYSTEMS INCLUDING SALVAGE ACOUSTIC
WARFARE SYSTEMS FOR SURFACE SHIPS AND SUBMARINES.

PLAN & CONDUCT RDT&E & PROVIDE SUPPORT TO OPERATING FORCES, NAVAL & GOV. AGENCIES IN SURFACE, SUBSURF & AIRBORNE MINE DEFENSE&ACCUSTIC & TORPEDO COUNTERMEASURES&INSHORE WARFARE& & RELATED SC & ENG. COMPUTERS& \$3.5M CM EVALUATOR, SDS 9300 DIGITAL & 2 ADI 256 ANALOGS& \$M B5500. 2 GULF RESEARCH PLATFORMS& \$5M IN 100° & 60° WATER WITH LIVING/LABS FOR 30 & 4 PEOPLE. \$220K OPTICAL TRACKING SYS. \$300K MODEL TOW BASIN. \$150K ELECTR TRACK RANGE. UNDERWATER ACCUSTICS FAC& \$200K TRACK RANGE, \$210K ANALOG DATA ANAL, \$500K TRANSDUCER DEV & EVAL, \$200K TRANSDUCER TEST POOL, \$425K SIM & SIGNATURE GENERATOR, \$50K TEST PLATFORM, MAGNETICS FAC: \$350K SIM, \$53K HELMHOLTZ COIL, \$110K SWEEP SIM, \$330K TARGET DETECT CLASS RANGE. \$110K PRES SIGNATURE SIM. \$89K WET SUBMERSIBLE.

The Market of the Control of the Con

INSTALLATION NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER WASHINGTON, D.C.

C.O. CAPT P.W. NELSON TECH. DIR. OR. A. POWELL

| | | PROGRAM | 1 DATA BY FI | SCAL YEAR (MILL | .ION \$) |
|--------|------------|-----------------|--------------|-----------------|-------------------|
| PROGRA | M | | 1972 | 1973 | |
| | | | (ACTUAL) | (ACT + EST) | |
| TOTAL | RDTEE | | 78.889 | 115.795 |) |
| TOTAL | PROCUREMEN | NT | 0.619 | 0.475 | i e |
| TOTAL | Mag | | 12.090 | 8.231 | • |
| TOTAL | OT HER | | 12.098 | 9.248 | l . |
| TOTAL | ANNUAL LA | В | 103.696 | 133.750 | |
| TOTAL | INHOUSE | | 39.204 | 40.354 | • |
| TOTAL | INHOUSE R | 337D | 28.455 | 32.367 | 1 |
| ANNUAL | OPERATIN | G COST | 23.572 | 22-655 | |
| | | PERSONNEL DA | ATA (END OF | FY 1972) | |
| PERSON | INEL . | AUTHORIZED | TOTAL | TOTAL | NON- |
| | | STRENGTH | PHDS | PROF | PROF |
| MILITA | IRY | 50 | 2 | 24 | 26 |
| CIVILI | AN | 3072 | 101 | 1232 | 1840 |
| TOTAL | | 3122 | 103 | 1256 | 1866 |
| | | SPA | CE AND PROPE | RTY | |
| ACRE | S | SPACE (THOUSANI | DS OF SQUARE | FEET) (| COST (MILLION \$) |
| | | LAB ADI | AIN OTHE | R TOTAL RE | AL PROP EQUIP |

...MISSION

325

TO BE THE PRINCIPAL NAVY ROTGE CENTER FOR NAVAL VEHICLES AND TO PROVIDE ROTGE SUPPORT TO THE U.S. MARITIME ADMINISTRATION AND THE MARITIME INDUSTRY.

2457.765

43.015

...CURRENT IMPORTANT PROGRAMS
TOWED COMMUNICATIONS FOR SUBMARINES.
PROJECT SURPASS.
INTEGRATED AIRCRAFT/WEAPON AERODYNAMICS (CONFORMAL CARRIAGE).
NAVY ENVIRONMENTAL PROTECTION PROGRAM.
COMPUTER-AIDED SHIP DESIGN AND CONSTRUCTION (CASDAC).

318-612 182-073 1957-680

PLAN AND CONDUCT ROTEE AND PROVIDE SUPPORT TO THE OPERATING FORCES AND NAVAL AND GOVERNMENT AGENCIES AS ASSIGNED IN THE AREAS OF HYDROMECHANICS, STRUCTURAL MECHANICS, ACOUSTICS & VIBRATIONS, AERODYNAMICS, APPLIED MATHEMATICS, SHIPS ATMOSPHERE CONDITIONING AND POLLUTION CONTROL, SHIP ELECTRICAL SYSTEMS, AND SHIPBOARD MACHINERY SYSTEMS. FACILITIES INCLUDE: BALLAST BLOW FACILITY& MAIN SEAWATER PIPING SYSTEM FACILITY& COMPUTER FACILITIES& HIGH SPEED, DEEP AND SHALLOW WATER, MANEUVERING-SEAKEPING, AND ROTATING ARM TOWLING BASINS& SUBSONIC, TRANSONIC, SUPERSONIC, AND HYPERSONIC WIND TUNNELS& ACQUISTIC DATA ANALYSIS CENTER& ANECHOIC FLOW FACILITY&DEEP SUBMERGENCE PRESSURE TEST TANKS& MAGNETIC FIELDS FACILITY& WELDING ANALYSIS FACILITY& AND STRUCTURAL RESEARCH FACILITY.

C.O. CAPT D.G. FAULKNER, JR. TECH. ADV. DR. E.E. MUEHLNER

| | PROGRAM DA | ATA BY FIS | CAL YEAR (MILLION | \$) |
|--------------|----------------|------------|-------------------|------|
| PROGRAM | • • | 1972 | 1973 | |
| | (AC | TUAL | (ACT + EST) | |
| TOTAL ROVEE | | 9.784 | 7.564 | |
| TOTAL PROCUR | EMENT | 10.726 | 15.953 | |
| TOTAL OSM | | 0.299 | 0.000 | |
| TOTAL OTHER | | 1.525 | 2.936 | |
| TOTAL ANNUAL | LAB | 22.334 | 26.453 | |
| TOTAL INHOUS | E | 0.881 | 1.081 | |
| TOTAL INHOUS | SE RDT&E | 0.631 | 0.776 | |
| ANNUAL OPERA | TING COST | 0.000 | 0.000 | |
| | PERSONNEL DATA | (END OF | FY 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 24 | 1 | 12 | 12 |
| CIVILIAN | 35 | 1 | 19 | 18 |
| TOTAL | 59 | 2 | 31 | 28 |
| | | | | |

| | | SPACE AND | D PROPERTY | | | |
|-------|---------------------------------|-----------|------------|----------------------|-----------|-------|
| ACRES | SPACE (THOUSANDS OF SQUARE FEET | | ET) | r) cost (Million \$) | | |
| | L AB | ADMIN | GTHER | TOTAL | REAL PROP | EQUIP |
| 0 | 0.000 | 1.595 | 3.233 | 4.828 | 0.000 | 0.022 |

PROVENG COMPET & MGMT FOR DEVELP ASSGND SPA SYSERESPONSIVE ROMTS OTHER USN ACTSEPROV GUIDANCE NAVAIRSYSCOM ON SCOPE & CONTENT ADV STUDY RESRCH & ESPLOR PROGSEPERFORM NAVY MGMT & ENG FUNCTIONS RELATED JT SVC SPA SYSDEVELP&COORD WITH AFSAMSO ON TECH & ENG ASPECTS OF SPA DEVELP & PROGS

...CURRENT IMPORTANT PROGRAMS ADVANCED SPACE SYSTEM PROJECT SROE FLEET SATELLITE COMMUNICATIONS SPACE TEST PROGRAM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
INITIATE PLAN AND EXECUTE SPACE PROJECTS AS ASSIGNED
PRODUCE TECH, COST & EFFECT STUDIES & ASSOC ENG MGNT & FINANCIAL PLANS
RESPONS FOR MISSON AREAS IN WHICH USN PARTICIPATES AS MBR JT SVC EFFORT
COORD ASSOC USN SPT EFFORT TO DOD & NASA SPACE RELATED PROGRAMS
FOCAL POINT FOR NAVY SPACE EXPERIMENTS
SINGLE POINT OF CONTACT WITH USAF SAMSO FOR ALL SPACE MATTERS
COORD SPT PROVIDED OTHER USN ACTIVITIES TO AREAS NSSA RESPONSIBLE
SUCH OTHER RESPONS AS ASSGND BY COMPETENT AUTHORITY

INSTALLATION NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY NEW LONDON, CT.

C.U. CAPT J.H. BAKER SCIENTIFIC DIR. DR. C.F. GELL

| PROGRAM | | TA BY FISCAL 1972 | YEAR (MILLION 1973 | \$) |
|----------------------|---------------|----------------------|--------------------|------|
| PRUGARA | | | (ACT + EST) | |
| TOTAL ROTEE | (1.4) | 1,446 | 1.461 | |
| TOTAL PROCUREMENT | | 0.000 | 0.000 | |
| TOTAL USM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.504 | 0.465 | |
| TOTAL ANNUAL LAS | | 1.950 | 1.926 | |
| TOTAL INHOUSE | | 1.950 | 1.926 | |
| TOTAL INHOUSE ROTEE | | 1.446 | 1.461 | |
| ANNUAL OPERATING COS | ST . | 0.042 | 0.046 | |
| DF | ERSONNEL DATA | (END OF FY | 19721 | |
| | RIZED | TOTAL | TOTAL | NON- |
| | LENGTH | PHDS | PROF | PROF |
| MILITARY | 42 | 7 | 16 | 26 |
| CIVILIAN | 67 | 14 | 37 | 30 |
| TOTAL | 709 | 21 | 53 | 56 |
| | CDACE A | NU OGUOEDIA | | |

| SPACE AND PROPERTY | | | | | | |
|--------------------|------------|-----------|-----------|--------|------------|----------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE | ET) | COST (MILL | .ION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 0 | 23,325 | 6.441 | 12-638 | 42.404 | 0.000 | 0.885 |

...MISSION

TO CONDUCT BASIC AND APPLIED RESEARCH IN SUBMARINE AND DIVING MEDICINE, CLOSED ENVIRONMENTS IN AREAS OF PHYSIOL. MEDICAL PSYCHOL. VISION AUDITION HUMAN FAC.ENG., DENTISTRY, MIL. APPLICATIONS, TO MEET NAVY REQ., AND FURNISH RES. AND MEDICAL ASSISTANCE TO SUB AND DIVING SHORE AND FLEET ACTIVITIES.

... CURRENT IMPORTANT PROGRAMS

1.EFFECTS OF ENVIRONMENTAL STRESS ON SUBMARINE PERS. A PROGRAM OF HABITA BILITY STUDIES IN THE LAB AND AT SEA:2 ESTABLISHMENT OF PHYSILOGICAL LIMITS OF SATURATION-EXCURSION DIVING:3.LONGITUDINAL HEALTH STUDY OF SUB AND DIVING PERS.:24.ORAL HEALTH EFFECTS OF SUB ENVIRONMENT AND PREVENTIVE CARE:5.SELECTION AND RETENTION OF SUBMARINE AND DIVING PERSONNEL.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

HYPERBARIC CHAMBERS, HUMAN-150PSI, ANIMIMAL, 300 PSI, 1000PSIEENVIR. CONTRIL CHAMBERS EUNDERWATER VISTON TEST POOL EARLCHOIC SUITE EMOBILE BIO-ACOUSTIC VANE ANIMAL CARE-HOUSING FAC. EGROUP OR AL HLTH-RES.FAC. EDENTAL OPERATORYE MICROBIOL-ISOLATION FAC. EAPPARATUE-MODEL SHOPETECH.LIB. EDATA PROC. EGRAPHIC ARTS-PHOTO LAB.PUB.DUP.FAC. ERADIOISOTOPE HANDLING-STORAGE FAC. EDATA CONG-LOGGING SYST. EDIGITAL COMPTR. EANALOG COMPTR. EHI-PRESS. REACTION VESSELEBIOTELEMETRY SYST. EMASS SPECS. EATOMIC ABSORP. SPTMTR. EGAS CHROMATO GRAPHEBODY PLETHYSMOGRAPHETREADMILLEPORT.X-RAY SYST. ETECHNICON AUTOANAL. SURGICAL SUITEGMISTO-PATHOL.LABEBIOCHEM LABSEBIOENG. LABEPUL, FUNC. EXERCISE LABECAR DIOPUL.-BLOOD ANAL.LABECOMP. AUTOMATED HU.FAC. ENG LABS. MULTICHANNEL MAG-TAPE SYSTSECLSD CIRUITE TV SHSYEREFRIG.HI SPEED CENTRIFUGEE NITROGEN FREEZE UNITEFLUIDIC CONTR. CONSOLEAIR ION MONITORING SYST.

C.O. CAPT R.H. GAUTIER TECH. DIR. DR. WM. B. HCLEAN

| 0000044 | PROGRAM | | L YEAR (MILLION | \$) |
|----------------|-----------------|-----------------|-----------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 48.893 | 52.500 | |
| TOTAL PROCUREM | ENT | 10.307 | 15.419 | |
| TOTAL OEM | | 11.554 | 10.642 | |
| TOTAL OTHER | | 7.842 | 5.522 | |
| TOTAL ANNUAL L | AB | 78.596 | 84.083 | |
| TOTAL INHOUSE | | 46.724 | 49.302 | |
| TOTAL INHOUSE | RDT&E | 31.374 | 33.620 | |
| ANNUAL OPERATI | NG COST | 18.819 | 18.624 | |
| | PERSONNEL DA | ATA (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 284 | Ö | 35 | 249 |
| CIVILIAN | 1691 | 91 | €83 | 1008 |
| TOTAL | 1975 | 91 | 718 | 1257 |
| | SP A | CE AND PROPERTY | | |
| ACRES | SPACE (THOUSAND | DS OF SQUARE FE | ET) COST | (MILLION \$) |
| | | MIN OTHER | TOTAL REAL | PROP EQUIP |
| 37575 | 336.900 33.4 | - | | .846 44.345 |

...MISSION

MISSION OF THE CENTER IS TO BE THE PRINCIPAL NAVY RESEARCH, DEVELOPMENT, TEST AND EVALUATION CENTER FOR UNDERSEA SURVEILLANCE, OCEAN TECHNOLOGY AND ADVANCED UNDERSEA WEAPONS SYSTEMS.

...CUPRENT IMPORTANT PROGRAMS
ADV U/S SURVEILLANCE INCL LG APERTURE & TOWED ARRAYS. ADV SONAR TECHNICS & FLEET SONAR SYS IMPROVEMT. ASW WEAPONS SYS DEV, EG ADV TORPEDO TECHNOL SUB-LAUNCHED MISSILE TECHNOL.FIRE CONTROL SYS & ACOUSTIC C/M CCEAN SCI. INCL MARINE BIOSYS.ACOUSTIC PROPAGATN & USW RELATED OCEANOG RSCH.OCEAN ENGRG INCL DEEP SUBMERG RECOVERY & WORK SYS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
UNDERSEA SURVL. UNDERSEA/SURFACE WEAPONS & FIRE CONTROL SYS LTWT TORPEDOES, HIGH SPEED VEHICLE & HIGH RESOLUTION SONARS, UW ACOUSTIC WARFARE SYS, REMOTE CONTROL UW SYS, OCEAN TECHNOL & ENGRG, MARINE BIOSCI, MAR MAMMAL SYS, ACOUSTIC PROPAGATION (PAC/ARC), PACFLT ASW SUPPT, ARCTIC SUBMARINE SYS. ROTEE LABS SDIEGO, PASADENA, HAWAII& MAR BIOSCI FACS SEA TEST/ENGRG RANGES SAN CLEMENTE IS, MORRIS DAM, LBEACH& CALIBRATION STAW ARCTIC FIELD STA, ALASKA& ARCTIC SUB LAB & POLAR ICE SIMULATOR& TRANSDUCER EVAL CTR ANECHOIC ALL FREQS& ASH COMPUTER SIM CTR& RSCH SHIPS & CRAFT INCL USNS SP LEE TAG 192& DATA ACQ, PLAYBACK & ANAL FAC FOR DEV/EVAL OF SIGNAL PROC TECHNICS& RESCUE SYS TEST FAC&DEV/TEST FACS FOR LTWT AIRDROP TORPEDOES&CABLE CONTROL UW RECOVY VEHICLE&PANORAMIC VIEW SUBMERSIBLES& VARIABLE ANGLE LAUNCHER.

C.O. CAPT MILTON C. MCFARLAND TECH. DIR. HAROLD E. NASH

| | PROGRAM DATA | BY FISCAL Y | EAR (MILLION | \$) |
|-----------------------|----------------|-------------------|--------------|-------------------------|
| PROGRAM | 1 97 | '2 | 1973 | |
| | (ACTUA | L) (AC | T + EST) | |
| TOTAL ROTEE | 49 | -143 | 62.865 | |
| TOTAL PROCUREMENT | 36 | .802 | 34.984 | |
| TOTAL DEM | 20 | .033 | 25.898 | |
| TOTAL OTHER | 10 | .443 | 7.653 | |
| TOTAL ANNUAL LAB | 118 | -421 | 131-400 | |
| TOTAL INHOUSE | 85 | 5 -4 40 | 101-645 | |
| TOTAL INHOUSE ROTEE | 39 | -445 | 46.995 | |
| ANNUAL OPERATING COST | 17 | 7•82 9 | 18-115 | |
| PERS | ONNEL DATA (E | ND OF FY 19 | 972) | |
| PERSONNEL AUTHORI | ZED | OTAL | TOTAL | NON- |
| STREN | GTH | PHDS | PROF | PROF |
| MILITARY | 93 | 0 | 23 | 70 . |
| CIVILIAN 31 | 40 | 73 | 1359 | 1781 |
| TOTAL 32 | 33 | 73 | 1382 | 1851 |
| | SPACE AND | PROPERTY | | |
| ACRES SPACE (| THOUSANDS OF S | | | (MILLION \$) PROP EQUIP |
| | 8 121.655 | | _ | .598 32.915 |

---MISSION
TO BE THE PRINCIPAL NAVY ROTGE CENTER FOR UNDERWATER WEAPONS SYSTEMS

...CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF UNDERWATER ACOUSTIC THEORY MODELS & SIMULATION TECHNIQUES
DESIGN DEVELOPMENT AND EVALUATION OF UNDERWATER WEAPON AND TARGET SYSTEM
MAINTAIN PRIMARY R&D CAPABILITY FOR SONAR SYSTEMS HULL MOUNTED AND TOWED
DESIGN/PERFORM UNDERWATER RANGING EXPERIMENTS AND EVALUATION OF DATA
R&D CAPABILITY FOR READINESS OF IN-SERVICE SHIPBOARD UNDERWATER SYSTEMS

---FUNCTIONS/EQUIPMENT/CAPABILITIES
TO PROVIDE ROTGE SUPPORT TO NAVSHIPS/NAVELEX/NAVORD/NAVAIR/NAVOCEANO.
MAJOR EQUIPMENT AND FACILITIES - TORPEDO TEST RANGE COMPLEX INCLUDING
LOCATIONS AT NEWPORT R I ANDROS ISLAND BAHAMAS AND CAPE KENNEDY FLORIDA/
ASW WEAPON FIRE CONTROL DEVELOPMENT AND EVALUATION FACILITY/ACOUSTIC
MEASUREMENT AND TRANSDUCER RESEARCH AND EVALUATION FACILITIES/INSTRUMENT
CALIBRATION LABORATORY/ASW WEAPON LAUNCHING DEVICE DEVELOPMENT AND
EVALUATION FACILITY/WEAPONS SYSTEMS SIMULATION LABORATORY/OCEANGGRAPHIC
LABORATORY FACILITY/LABORATORY RESEARCH AND TECHNICAL SUPPORT SHOP
FACILITIES/RESEARCH SUPPORT VESSELS FACILITY/INSTRUMENTATION DESIGN AND
RECORDING TECHNIQUES FACILITY/TORPEDO PROPULSION TEST FACILITY/DIGITAL
COMPUTER AND DATA ANALYSIS RESEARCH FACILITIES TO EVALUATE EXISTING AND
PROPOSED WEAPONS SYSTEMS AND TO CONDUCT DATA REDUCTION AND ANALYSIS.

and the second of the second o

C.O. CAPT G.W. WERNER

| | PROGRAM DA | | AL YEAR (MILLION | \$) |
|----------------|------------------|------------|---|--------------|
| PROGRAM | | 1972 | 1973 | |
| | (AC | TUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 0.025 | 0.162 | |
| TOTAL PROCUR | EMENT | 0.000 . | 0.000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.092 | 0.178 | |
| TOTAL ANNUAL | LAB | 0.117 | 0.340 | |
| TOTAL ATTIONS | # F1 # | 00201 | *************************************** | |
| TOTAL INHOUSE | = | 0.117 | 0.340 | |
| TOTAL INHOUS | | 0.025 | 0.162 | |
| ANNUAL OPERA | | 0.019 | 0.040 | |
| ANNUAL UPERA | IING COST | 0.019 | 0.040 | |
| | PERSONNEL DATA | (END OF F | V 10721 | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| PERSONNEL | | | | |
| M71 7 7 4 0 14 | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 16 | 2 | 6 | 10 |
| CIVILIAN | 1 | 0 | 0 | 1 |
| TOTAL | 17 | 2 | 6 | 11 |
| | SPACE A | ND PROPERT | Υ | |
| ACRES | SPACE (THOUSANDS | | - | (MILLION \$) |
| ~~~~ | I AR ADMIN | OTHER | TOTAL DEAL | |

ACRES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

0 0.000 2.121 0.000 2.121 0.000 0.010

DEVELOPMENT OF MATERIALS AND METHODS COMPATIBLE WITH NAVY REQUIREMENTS FOR THE PREVENTION AND CONTROL OF DISEASES OF NATURAL AND UNNATURAL ORIGIN
VIRAL AND BACTERIAL SEROLOGY VIRAL AND TISSUE CULTURE AND AEROBIOLOGY

---CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF NEW EXPERIMENTAL VACCINES
ENVIRONMENTAL PREVENTION AND CONTROL OF AIRBORNE DISEASES
CLEANSING OF HOSPITAL EQUIP AND SPACES WITH GASEOUS DISINFECTANTS
PROMOTE MODERN MED SCIENTIFIC RESEARCH JOINTLY WITH DEPT OF THE ARMY
AND EVALUATE BIOLOGICAL WARFARE MEDICAL DEFENSIVE MEASURES

•••FUNCTIONS/EQUIPMENT/CAPABILITIES
DRUG SYNTHESIS FOR ANTICHOLINESTERASE
NONIONIZING RADIATION EFFECTS SAFETY MONITORING
RAPID IDENTIFICATION TECHNIQUES OF VIRUSES

INSTALLATION NAVAL WEAPONS CENTER

C.O. RADM H. SUERSTEDT, JR. TECH. DIR. H.G. WILSON

| PROGRAM | PROGRAM DATA BY | FISCAL YEAR (MILLIO | IN \$) |
|-----------------------|-----------------|---------------------|--------|
| PRUGRAM | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | 105.45 | | |
| TOTAL PROCUREMENT | 35.03 | | |
| TOTAL OEM | 6.06 | 2 5.610 | |
| TOTAL OTHER | 25.54 | 5 24.722 | |
| TOTAL ANNUAL LAB | 172.09 | 1 163.104 | |
| TOTAL INHOUSE | 108.97 | 5 105.210 | |
| TOTAL INHOUSE ROTGE | 68.52 | 7 66.842 | |
| ANNUAL OPERATING COST | 40.32 | 5 42.432 | |
| PERSO | NNEL DATA (END | OF FY 1972) | |
| PERSONNEL AUTHORIZ | ED TOTA | L TOTAL | NON- |
| STRENG | TH PHD | S PROF | PROF |
| MILITARY 71 | 6 | 0 45 | 671 |
| CIVILIAN 459 | 2 10 | 4 1453 | 3139 |
| TOTAL 530 | 8 10 | 4 1498 | 3810 |
| | SPACE AND PRO | PERTY | |
| | | | |

| | | SPACE A | ND PROPERTY | Y | | |
|---------|-----------|-----------|-------------|----------|------------|----------|
| ACRES | SPACE (TH | OUSANDS O | F SQUARE FE | EET) | COST (MILI | LION \$) |
| | LAB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 1093019 | 722.689 | 163.857 | 5752.845 | 6639.391 | 229.339 | 83.925 |

---MISSION
THE MISSION OF THE NAVAL WEAPONS CENTER IS TO BE THE PRINCIPAL NAVY
ROT AND E CENTER FOR AIR WARFARE AND MISSILE WEAPON SYSTEMS.
THE FUNCTIONS ARE TO ESTABLISH AND MAINTAIN THE PRIMARY IN-HOUSE
RESEARCH AND DEVELOPMENT CAPABILITY FOR NAVY AND MARINE CORPS SYSTEMS.

...CURRENT IMPORTANT PROGRAMS

AGILE - ADVANCED SHORT RANGE AIR-TO-AIR MISSILE SYSTEM.

HARM - HIGH SPEED ANTI-RADIATION MISSILE.

FAE - FUEL AIR EXPLOSIVE.

CONDOR - AIR-TO-SURFACE MISSILE SYSTEM WITH STAND-OFF CAPABILITY.

AIM9L - GUIDED, AIR-LAUNCHED INTERCEPTOR MISSILE.

SUBSYSTEMS AND TECHNOLOGIES IN SUCH AREAS AS: STRIKE AIRCRAFT/WEAPON SYSTEMS AND CONCEPT DEVELOPMEN & AVIONICS SYSTEMS& TACTICAL MISSILES (ANTI-SHIP CRUISE MISSILES AND POINT DEFENSE MISSILES)& PROPULSION, GUIDANCE AND CONTROL, WARHEAD, FUZE, AND LAUNCHER AND HANDLING EQUIPMENT SUBSYSTEMS FOR THE AFDREMENTIONED SYSTEMS: STRIKE WARFARE COUNTERMFASURES& AND WEATHER MODIFICATION. FACILITIES INCLUDE: MICHELSON LABORATORY& ELECTRONIC WARFARE RANGE& SOLID STATE DEVICES LABORATURY& FUZE TEST RANGE& PROPULSION RESEARCH LABORATORIES& MICROELECTRONICS FACILITY& EXPLOSIVES RESEARCH AND DEVELOPMENT FACILITY& GROUND AND AIRCRAFT RANGES& EXTERIOR AND TERMINAL BALLISTICS RANGES& NAVAL AIR FACILITY& AIRCRAFT SURVIVABILITY FACILITY SUPERSONIC TEST TRACKS& MICROWAVE ANECHOIC FACILITIES.

C.O. CAPT R.H. STOLPE TECH. DIR. F.X. BUSHNER

| | PRO GR A | | ISCAL YEAR (MI | LLION \$) | |
|----------------|----------------|--------------|----------------|-------------------|---|
| PROGRAM | | 1972 | 1973 | | |
| | | (ACTUAL) | (ACT + EST |) | |
| TOTAL ROTEE | | 1.170 | 1.1 | 51 | |
| TOTAL PROCUREM | ENT | 0.752 | 0.6 | 54 | |
| TOTAL OEM | | 0.927 | 0.7 | 97 | |
| TOTAL OTHER | | 2.439 | 2.4 | 73 | |
| TOTAL ANNUAL L | AB | 5,288 | 5.0 | 75 | |
| | | | | | |
| TOTAL INHOUSE | | 5,236 | 5.0 | 45 | |
| TOTAL INHOUSE | RDT&E | 1.118 | 1.1 | 21 | |
| ANNUAL OPERATI | NG COST | 0.599 | 0.7 | 01 | |
| | | | | | |
| | PERSONNEL D | | F FY 1972) | | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTA | L NON- | |
| | STRENGTH | PHDS | PRO | F PROF | |
| MILITARY | 200 | 0 | 200 | 0 | |
| CIVILIAN | 94 | 1 | 39 | 55 | |
| TOTAL | 294 | 1 | 239 | 55 | |
| | | | | | |
| | - | ICE AND PROP | | | |
| ACRES | SPACE (THOUSAN | NDS OF SQUAR | E FEET) | COST (MILLION \$) | |
| | LAS A | HTO NIM | ER TOTAL | REAL PROP EQUI | P |
| 5 | 19.590 21. | 522 101.9 | 58 143.070 | 8.500 0.45 | 0 |

...MISSION

TEST-EVALUATE-SUPPORT NUCLEAR/DESIGNATED NON-NUC WPNS/WPN SYSTEMS. ADVIS CNO IN PROMOTING-MONITORING NUC WPN SAFETY. PLAN-CONDUCT N&C WPN SYSTEM SAFETY STUDIES/RVWS.ASSIST BD OF INSP/SURVEY IN EVAL OF NUC WPN/AIRCRAFT/SHIPS. PROVIDE A/C CHECKLISTS/LDG MAN FOR NUC/DESIGNATED NON-NUC WPNS.

***CURRENT IMPORTANT PROGRAMS
PREPARING CHECKLISTS/LDG MANUALS FOR F-14 A/C AND HARRIER WPN SYSTEM.
CONDUCTING EVAL OF A7E COMPUTER DELIVERY OF NUC WPNS. CONDUCTING FAULT
TREE SAFETY ANALYSIS OF MK48 TORPEDO. EVALUATING NUC SAFETY OF ASROC WPN
SYSTEM DN DD963 CLASS SHIPS. PARTICIPATING IN EARLY DEVELOPMENT OF XM517
AND XM673 NUC PROJECTILES, SM-2 AAW MISSILE, AND MK400 AR MK500 FBMS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCT OF NAVY NUC WPNS:EVALUATION, TEST, VULNERABILITY, COMPATIBILITY AND
SAFETY PROGRAMS&SAFETY STUDIES AND RYWS&FEASIBILITY STUDIES FOR FUTURE
SYSTEMS&SAFETY SURVEYS AND SYMPOSIA. PREPARATION OF NUC WPN:A/C CHECK
LISTS AND LDG MANUALS, MILITARY CHARACTERISTICS AND STOCKPILE-TC-TARGET
SEQUENCES, SAFETY ANALYSES, MECH-ELECT INTERFACE DWGS, EMERGENCY DESTRUCT
PROCEDURES, NUC SAFETY PERIODICAL. PARTICIPATION IN NUC WPN:BD OF INSP
AND SURVEY TRIALS OF A/C AND SHIPS, EFFECTS TESTS, PROTECTIVE EQUIPMENT
PROGRAM, DEV OF A/C BDUS AND SUSPENSION-RELEASE-AMAC EQUIP, PHASE I AND II
STUDIES. PROVIDE:FLIGHT SERVICE TO THE AEC, SUPPORT TO THE NLO-JAWPS,
ENGINEERING-TECHNICAL-FIELD TO SYSTEM COMMANDS/PROTECT OFFICES, A/C AND
HDLG EQUIPMENT MAINTENANCE, NUC WPN LIAISON TO AEC-DNA-CONTRACTORSFLEETS-FIELD ACTIVITIES.

C.O. CAPT ROBERT F. SCHNIEDWIND TECH. DIR. BERNARD SMITH

| | PRO | GRAM DATA BY | FISCAL YEAR | (MILLION | \$) |
|-------------------|------------|--------------|-------------|----------|--------------|
| PROGRAM | | 1972 | 1 | 973 | |
| | | (ACTUAL) | (ACT + | EST) | |
| TOTAL ROTEE | | 29.3 | 69 | 45.486 | |
| TOTAL PROCURE | MENT | 24.2 | | 16.287 | |
| TOTAL DEM | | 11.3 | 69 | 11.358 | |
| TOTAL OTHER | | 18.3 | | 13.237 | |
| TOTAL ANNUAL | I AR | 83.3 | | 86.368 | |
| TOTAL MITTORE | | 0212 | | | |
| TOTAL INHOUSE | | 56.5 | 50 | 63.290 | |
| TOTAL INHOUSE | | 19.4 | | 36.826 | |
| ANNUAL OPERAT | | 12.2 | | 13.135 | |
| | | | | | |
| | PERSONNE | L DATA (END | OF FY 19721 |) | |
| PERSONNEL | AUTHORIZED | TOT | | TOTAL | NON- |
| · - • - · · · · - | STRENGTH | PH | DS | PROF | PROF |
| MILITARY | 108 | | 0 | 27 | 81 |
| CIVILIAN | 2703 | | 67 | 1029 | 1674 |
| TOTAL | 2811 | | 67 | 1056 | 1755 |
| | | | •• | 2000 | •,,,, |
| | | SPACE AND PR | OPERTY | | |
| ACRES | | SANDS OF SQU | | COST | (MILLION \$) |
| | L AB | | | | PROP EQUIP |
| 4490 | 484.567 | 73.655 808 | .830 1367. | | .573 31.101 |

...MISSION
CONDUCTS A PROGRAM OF WARFARE ANALYSIS, RESEARCH, DEVELOPMENT, TEST,
EVALUATION, SYSTEMS INTEGRATION, AND FLEET ENGINEERING SUPPORT IN NAVAL
WEAPONS SYS, PRINCIPALLY FOR SURFACE WARFARE, AND CONDUCTS SUPPORTIVE
PROGRAMS IN OTHER WARFARE AND FIELDS OF TECHNOLOGY.

...CURRENT IMPORTANT PROGRAMS
EXTENDED RANGE GUIDED PROJECTILE AND AMMUNITION PROGRAMS
NAVAL TACTICAL RECONNAISSANCE AND SURVEILLANCE PROGRAMS
GUIDANCE DATA FOR POLARIS/POSEIDON/ULMS/FBM SYSTEMS PROGRAMS
SPECIAL EFFECTS WARHEADS
DIGITAL FIRE CONTROL SOFTWARE/HARDWARE PROGRAMS

LAB CAPABILITIES SUPPORT WORK IN TACTICAL, STRATEGIC, AMPHIBIOUS AND MINE WARFARE ANALYSIS, SYSTEMS EFFECTIVENESS STUDIES, SATELLITE GEODESY& DIGITAL FIRE CONTROL SYSTEMS, COMPUTER SCIENCES, ROTGE IN WARFARE AND SURFACE LAUNCHED WEAPONS & ELECTROMAGNETIC WARFARES MISSILE GUIDANCES WEAPONS CONTROLSMATERIALS AND INSTRUMENTATION RESEARCHS WEAPONS SAFETY, MODEL FABRICATIONSPRODUCT ENGINEERINGS ELECTRONIC AND APPLIED PHYSICSS GEO, INTERIOR, EXTERIOR AND TERMINAL BALLISTICSS WARHEAD AND MUNITIONS RED FACILITIES INCLUDE WARFARE ANALYSIS CENTER AND COMPUTATION FACSFIRE CONTROL PROGRAM ASSURANCE FACS FBM DISC PACK PRODUCTION FACSEXPLOSIVE EFFECTS EVALUATION COMPLEXS CHEM/BIO DEFENSE LAB COMPLEXSSPECIAL EFFECTS TEST FACSGUNNERY AND MISSILE RANGE COMPLEXS NAVAL GUN EVAL FACS EMPASS SUPPORT FACSELECTROMAGNETIC VULNERABILITY TEST FACILITY.

INSTALLATION NAVY MEDICAL NEUROPSÝCHIATRIC RESEARCH UNIT SAN DIEGO. CA C.O. CAPT R.J. ARTHUR SCIENTIFIC DIR. DR. W. WILKINS

| | PROGRA | | AL YEAR (MILLION \$ |) |
|----------------|-------------|-----------------|---------------------|-------------|
| PROGRAM | | 1972 | 1973 | |
| , | | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 0.975 , | 1-460 | |
| TOTAL PROCUREM | ENT | 0.000 | 0.000 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.517 | 0-295 | |
| TOTAL ANNUAL L | AB | 1.492 | 1.755 | |
| TOTAL INHOUSE | | 1.492 | 1.672 | |
| TOTAL INHOUSE | ROTAE | 0.975 | 1.377 | |
| ANNUAL OPERATI | NG COST | 0.190 | 0.170 | |
| | PERSONNEL C | DATA (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 19 | 11 | 14 | 5 |
| CIVILIAN | 58 | 9 | 26 | 32 |
| TOTAL | 77 | 20 | 40 | 37 |
| | SP A | ACE AND PROPERT | Y | |
| ACRES | <u> </u> | IDS OF SQUARE F | | MILLION \$) |
| | | MIN OTHER | | |
| 0 | 13.977 4. | 500 0.000 | 18-477 0-0 | 00 0.317 |

CONDUCT NEUROPSYCHIATRY RESEARCH AS APPLIES TO NAVAL SERVICE DEVELOP STUDY PLAN ON REPATRIATED PRISONERS OF WAR

...CURRENT IMPORTANT PROGRAMS LIFE STRESS & HEART DISEASE IN HEALTHY NAVY OFFICERS AND PETTY DEFICERS STRESS TOLERANCE DIFFERENCES AMONG NAVAL PERSONNEL DEVELOP COMPUTERIZED PSYCHIATRIC DATA-SYSTEM FOR NAVAL SERVICE GUIDELINES FOR PSYCHIATRIC TREATMENT AND DISPOSITION OF NAVAL PERSONNEL PHYSICAL FITNESS STANDARDS PREDICTING MILITARY EFFECTIVENESS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ANALYSIS OF UNDERWATER PSYCHOPHYSIO PROGRAMS AND TASKS COMPLETE EEG COMBINED USE FOR SINGLE SEIZURE STUDY AND SLEEP DEPRIVATION ON-LINE SEG RECORDING CAPABILITIES

C-O- LCDR L-J. JENKINS

| | PRO | GRAM DATA | BY FISC | AL YEAR (MI | LLION \$) | |
|---------------|-------------|-----------|----------|-------------|-----------|----------|
| PROGRAM | | 19 | 72 | 1973 | | |
| | | (ACTL | IAL) | (ACT + EST | ·) | |
| TOTAL ROTEE | | | 0.234 | 0.5 | 48 | |
| TOTAL PROCURE | MENT | | 0.000 | 0.0 | 00 | |
| MAG LATOT | | | 0.000 | 0.0 | 00 | |
| TOTAL OTHER | | | 0-151 | 0.1 | .58 | |
| TOTAL ANNUAL | LAB | | 0.385 | 0.7 | '06 | |
| TOTAL INHOUSE | | | 0.380 | 0.4 | 23 | |
| TUTAL INHOUSE | ROTEE | | 0.229 | 0.2 | 65 | |
| ANNUAL OPERAT | ING COST | | 0.012 | 0.0 | 15 | |
| | PERSONNE | L DATA | END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL. | TOTA | \L | NON- |
| | STRENGTH | | PHDS | PRO |)F | PROF |
| MILITARY | 17 | | 3 | 8 | } | 9 |
| CIVILIAN | 7 | | 0 | 2 | ? | 5 |
| TOTAL | 24 | | 3 | 10 |) | 14 |
| | | SPACE AND | PROPERT | Y | | |
| ACRES | SPACE (THOU | | | | COST (MIL | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 0 | 2.260 | 0-140 | 1.416 | 3-816 | 0-187 | 0.508 |

...MISSION
CONDUCT ROTGE IN OPERATIONAL & ENVIRONMENTAL TOXICOLOGY. RESEARCH TOX
RESPONSE TO ATMOSPHERIC CONTAMINANTS AT HIGH PRESSURE, CHARACTERIZE TOX
POTENTIAL OF SURFACE SHIP & SUBMARINE CHEMICALS & MATERIALS. RESEARCH
SYNERGISTIC EFFECTS OF THERMAL DEGRADATION PRODUCTS OF ORGANIC NITRATE

...CURRENT IMPORTANT PROGRAMS
CHRONIC INGESTION OF RDX IN MONKEYS DOGS AND RODENTS.
TOXICOLOGY OF SULFOLANE A MATERIAL WITH POTENTIAL USE IN CO2 SCRUBBERS.
BEHAVIORAL TOXICOLOGY OF SULFOLANE AND NOSET-A PROPELLANT.
THRESHOLD TOXICITY OF MONOMETHYLHYDRAZINE.
HYPERBARICTOXICITY OF HYPERBARIC BREATHING GAS MIXTURES.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FUEL. EVALUATE ACUTE AND CHRONIC TOXICITY OF ENVIRONMENTAL CONTAMINANTS
OF NAVAL ORIGIN BY EFFECTS ON HEMATOLOGIC BIOCHEMICAL ENZYMATIC AND
PATHOLOGIC PARAMETERS. DETERMINE MODE AND SITE OF ACTION OF TOXIC
MATERIALS. DEVELOP DATA ON ORAL OCULAR DERMAL AND INHALATION HAZARDS OF
MILITARY CHEMICALS. DEVELOP EXPOSURE CRITERIA TO PROTECT HEALTH.
RESEARCH TOX OF ATMOSPHERIC CONTAMINANTS AT PRESSURES TO 1000 PSIG.
FACILITIES AND EQUIPMENT CAPABILITY CONSISTS OF 6&2 CV METER EXPOSURE
CHAMBERS 150 & 1000 PSIG CHAMBERS WELL EQUIPPED CHEMISTRY BIOCHEMISTRY
HEMATOLOGY PATHOLOGY PHARMACOLOGY & INSTRUMENTATION LABORATORIES.
OVERALL CAPABILITY IN ENVIRONMENTAL TOXICOLOGY OF INHALED & INGESTED
CONTAMINANTS OF NAVAL ORIGIN & DEVELOPMENT OF EXPOSURE CRITERIA.

The state of the s

C.O. RADM W.M. HARNISH TECH. DIR. W.L. MILLER

| 00000 44 | PROGRAM | | L YEAR (MILLION | \$1 |
|---|--------------|-----------------|-----------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| TOTAL DOTAL | | | (ACT + EST) | |
| TOTAL ROTGE | | 65.355 | 67.723 | |
| TOTAL PROCURE | MENT | 1.496 | 4.969 | |
| TOTAL DEM | | 6.955 | 6.323 | |
| TOTAL OTHER | | 16.305 | 14.592 | |
| TOTAL ANNUAL | LAB | 90.112 | 93.607 | |
| TOTAL INHOUSE | | 58.156 | 59.233 | |
| TOTAL INHOUSE | RDT&E | 44.150 | 44.998 | |
| ANNUAL OPERAT | ING COS? | 22.795 | 23.022 | |
| | PERSONNEL DA | ATA (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 727 | 9 | 118 | 609 |
| CIVILIAN | 2909 | 5 | 284 | 2525 |
| TOTAL | 3636 | 14 | 502 | 3134 |
| | SPA | CE AND PROPERTY | | |
| ACRES | | S OF SQUARE FE | | (MILLION \$) |
| *************************************** | | MIN /OTHER | | |
| 29600 | 93.463 271. | | | .600 170.000 |

...MISSION
TO PROVIDE SUPPORT FOR THE DEPARTMENT OF DEFENSE AND OTHER DESIGNATED GOVERNMENT AGENCIES FOR LAUNCHING, TRACKING, & COLLECTING DATA IN GUIDED MISSILE, SATELLITE, & SPACE VEHICLE RESEARCH, DEVELOPMENT, EVALUATION AND TRAINING PROGRAMS AND ACTUAL OPERATIONS

***CURRENT IMPORTANT PROGRAMS
RANGE SUPPORT OF 280 NATIONAL RANGE USER PROGRAMS INCL F-14 AND HARPOON
DEV OF UNDERWATER TEST AND EVAL RANGE IN HAWAIIAN AREA FOR ASM WEAPONS
DEV EXTENDED AREA TRACKING SYSTEM (OVER-THE-HORIZON) IN CONUS AREA
DEV OF INTEGRATED TARGET CONTROL SYSTEM (ITCS) FOR CONUS SITES
DEV OF AIR COMBAT MANEUVERING TEST SYSTEM (ACMTS) FOR TACT WPN SYS EVAL

...FUNCTIONS/EQUIPMENT/CAPABILITIES

OPERATE NAT*L RANGE FACIL AT PT MUGU CAL/SAN NICOLAS IS/KAUAI HAW/MIDWAY
IS/WAKE IS/JOHNSTON IS. OPERATE UNDERWATER RANGE; KAUAI. OPERATE RANGE
INSTR SHIP USNS WHEELING (TAGM-8) AND 5 RANGE INSTR AIRCRAFT (EC-121K).
PROVIDE TRAJECTORY DATA, TELEMETRY COMMAND CONTROL/DESTRUCT, COMM SVCS
DATA RELAY AND DISPLAY FOR CONTROL DATA PROCESSING ITEM RECOVERY AT
SEA, TECH SVCS (CALIB/REPAIR/INSTALL (MAINT), METRO & OCEANO SVCS, FREQ
PROTECTION, NAVIG AIDS LOGISTICS & BASE SUPPORT MAJOR OP CONTROL SITES
AT CONUS & BARKING SANDS DATA PROC CENTER PT MUGU PROBE LAUNCH COMPLEX
AT PT MUGU SAN NICOLAS IS, & KAUAL. UNDERWATER RANGE KAUAI IS 5 X 10 MI
WITH 37 HYDROPHONES AT 400-1000 FATHOMS INSTRUMENTED AREAS: CONUS-100X
200 MI/HAW AREA - 50 X 100 MI/JOHNSTON - 100 MI RADIUS AREA FREQ COORD
(JCS) AT CONUS AND HAW AREA. SPEC HYDROACOUSTIC ARRAY OAHJ/MIDWAY/WAKE

C.O. COL W.S. MOE DEPUTY DIR. M.P. DUNNAM

| | PRO | | | AL YEAR (M) | LLION \$) | |
|---------------|------------|-----------|----------|-------------|-----------|----------|
| Program | | | 72 | 1973 | _ | |
| | | (ACTU | AL) | (ACT + EST | ') | |
| TOTAL RDTG2 | | 6 | 0.830 | 70.5 | 00 | |
| TOTAL PROCURE | 1ENT | | 0.000 | 0.0 | 00 | |
| TOTAL DEM | | | 0.000 | 0.0 | 00 | |
| TOTAL STHEP | | | 0.000 | 0.0 | 000 | |
| TOTAL ANNUAL | _AB | 6 | 0.830 | 70 • 5 | 00 | |
| TOTAL INHOUSE | | | 5.387 | 5.2 | 235 | |
| TOTAL INHOUSE | RD7&E | | 5.387 | 5.2 | 235 | |
| ANNUAL OPERAT | ING COST | | 0.189 | 0.2 | 237 | |
| | PERSONNE | L DATA (| END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOT*L | TOTA | \L | NON- |
| | STRENGTH | | PHUS | PRO |)F | PROF |
| MILITARY | 51 | | 4 | 47 | 7 | 4 |
| CIVILIAN | 341 | | 10 | 182 | 2 | 159 |
| TOTAL | 392 | | 14 | 229 | • | 163 |
| | | SPACE AND | PROPERT | ſΥ | | |
| ACRES | SPACE (THO | JSANDS OF | SQUARE F | EET) | COST (MIL | LION \$) |
| · • | LAB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 40 | 309.500 | 66.500 | 274.775 | 650.775 | 12.894 | 16.713 |

PLAN, FORMULATE AND EXECUTE EXPLORATORY ADVANCED AND PROTOTYPE DEVELOP-MENT PROGRAMS IN AIR-BREATHING PROPULSION, FLIGHT POWER, LASER AERODYNAM-ICS AND AIRCRAFT FUELS, LUBRICANTS AND FIRE PROTECTION. ENSURE THE RAPID APPLICATION OF RESEARCH AND TECHNOLOGY TO ADVANCED AEROSPACE SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
YJ101 PROTOTYPE ENGINE FOR LIGHTWEIGHT FIGHTERS
HIGH TEMPERATURE TURBINE, WITH VARIABLE GEOMETRY AND HIGH STAGE LOADING
INTEGRAL ROCKET/RAMJET POWERED MULTI-PURPOSE MISSILE
LASER AERODYNAMICS AND HIGH POWER FOR LASER SYSTEM
FUELS AND PROTECTION TECHNIQUES TO ENHANCE AIRCRAFT SURVIVABILITY

TURBOSHAFT ENGINE ALT CELL-FUEL CONTROL SYNTHESIS-CENTRAL DATA SYSTEM ENERGY CONVERSION TRANSFER FAC-PROGRAMMABLE BATTERY TEST RACKS LUBRICANT RESEARCH FAC-GEAR RIGS-BEARING RIG-SEAL TEST RIGS, FUEL RESEARCH LABCORROSION TEST-AGING CHAMBERS-FUEL CHAMBER, ROTOR TEST FAC-UP TO 4000 HP P-95 FT MAX DIA UP TO 50000 LB THRUST TURBINE ENGINE TEST STANDS-10 SEALEVEL STANDS TO 50000 LB THRUST, 2 TURBINE ENGINE ALTITUDE CELLS TO 3000 LB THRUST-50000 FT-MACH 1.5, PROPELLER WHIRL RIGS-4 RIGS TO 30000 HP GYROSCOPIC TEST CHAMBER, SPACE POWER VACUUM AND LIQUID METAL LOOP FAC-27 FT DIA BY 37 FT HIGH, HEAT TRANSFER RESEARCH FAC-HYDROGEN COOLED TURBINE ENGINE BLADES, ELECTRO AERODYNAMIC LASER FAC-VARIABLE POWER SUP-PLY TO 300 KW AT 100-600 VDC, AIRCRAFT SOLID STATE ELECTRICAL POWER FAC-THREE 350 HP DRIVE STANDS-2 AT AIRCRAFT ELECTRICAL SIMULATORS

HARLES OF THE WAY TO BE THE STATE OF THE STATE OF

C.O. COL W.J. HARE CHIEF SCIENTIST DR. HANS J.P. VON CHAIN

| | PRO | | | AL YEAR (MI | LLION \$) | |
|-----------------|-------------|--------------|----------|-------------|-----------|-----------|
| PROGRAM | | 19 | 72 | 1973 | | |
| | | EACTU | AL) | (ACT + EST |) | |
| TOTAL ROTEE | | 1 | 2.754 | 12.4 | 54 | |
| TOTAL PROCUREME | NT | | 0.000 | 0.0 | 00 | |
| TOTAL DEM | | | 0.000 | 0.0 | 00 | |
| TOTAL OTHER | | | 1.060 | 1.0 | 62 | |
| TOTAL ANNUAL LA | 18 | 1 | 3.814 | 13.5 | 16 | |
| TOTAL INHOUSE | | | 9.155 | 8.1 | 67 | |
| TOTAL INHOUSE R | DT&E | | 8.095 | 7.1 | 05 | |
| ANNUAL OPERATIO | IG COST | | 1.504 | 1.3 | 34 | |
| | PERSONNE | L DATA (| END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOTA | L | NON- |
| | STRENGTH | | PHDS | PRO | F | PROF |
| MILITARY | 72 | | 22 | 56 | | 16 |
| CIVILIAN | 173 | | 43 | 84 | | 89 |
| TOTAL | 245 | | 65 | 140 | | 105 |
| | | SPACE AND | PROPERT | r y | | |
| ACRES | SPACE (THOU | JSANDS OF | SQUARE F | EET) | COST (MI | LLION \$) |
| | L AB | ADMIN | | TOTAL | REAL PROP | EQUIP |
| 34 | 134.953 | 49.837 | 34.719 | 219.509 | 12.625 | 12.603 |

...MISSION
PLANS AND EXECUTES USAF RESEARCH PROGRAMS IN THE PHYSICAL AND ENGINEER
SCIENCES. PROVIDES TECHNICAL OR MANAGEMENT ASSIST IN SUPPORT OF STUDIES,
ANALYSES, RESCH AND DEVELOPMENT PLANNING ACTIVITIES, ACQUISITION, TEST,
EVALUATION. AND OPERATION OF AEROSPACE SYSTEMS AND EQUIPMENT.

...CURRENT IMPORTANT PROGRAMS
INVESTIGATION OF FLUID DYNAMIC ENERGY AND MOMENTUM EXCHANGE PROCESSES.
STUDY OF PROCESSES AT SOLID-GAS AND SOLID-SOLID INTERFACES.
STUDY OF INFRARED TRANSMISS AND CONVERSION PROCESSES IN II-VI MATERIALS.
FUNDAMENT. RESCH ON NON-EQUILIBRIUM IONIZAT AND EXCITAT PROC IN PLASMAS.
EXCITAT AND IONIZAT PROCESS., KINETICS OF CHEM REACTIONS PERT. TO LASERS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ARL CONDUCTS AND SPONSORS FUNDAMENTAL RESCH IN: STRUCTURE AND PROPERTIES
OF SOLIDS& CHEMICAL PROPERTIES AND PROCESSES& HIGH VELOCITY FLUID MECHANICS& AEROSPACE SIMULATION TECHNIQUES& APPLIED MATH& PLASMA AND SOLID
STATE PHYSICS AND ENERGY CONVERSION. SUPPORT FACILITIES INCL GLASS SHOP,
MACHINE SHOP AND 15000 VOL TECHNICAL LIBRARY. EXPERIMENTAL FACILITIES
INCL: TWO HIGH REYNOLDS NUMBER SUPERSIN. WIND TUNNELS& 4 HYPERSONIC WIND
TUNNELS& AND A SUPERSONIC COMBUSTION FACILITY& A 1 MEV VAN DE GRAAFF ACCELERATOR& EPR AND NMR SPECTROMETERS& A TANDEM 10N-MGLECULE MASS SPECTROMETER& AND CAPABILITY FOR GROWTH OF THIN PLATELET TYPE II-VI CRYSTALS
OF A VERY HIGH DEGREE OF PURITY AND SURFACE PERFECTION.

C.O. MG J.C. MAXWELL CHIEF SCIENTIST T.H. DALEHITE

| | PROGRAM | DATA BY FISC. | AL YEAR (MILLION \$ |) |
|---|------------------|---------------|---------------------|-------------|
| PROGRAM | | 1972 | 1973 | • |
| | (| ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 129.713 | 138.817 | |
| TOTAL PROCURE | MENT | 205.271 | 195.000 | |
| MAG LATOT | | 2.632 | 2.615 | |
| TOTAL OTHER | | 46.639 | 58.413 | |
| TOTAL ANNUAL | LAB | 384-255 | 394.845 | |
| , | | | 0.5.100.10 | |
| TOTAL INHOUSE | | 100.205 | 107.601 | |
| TOTAL INHOUSE | RDT&E | 57.006 | 58.988 | |
| ANNUAL OPERAT | ING COST | 20.000 | 20.000 | |
| | | | | |
| | PERSONNEL DAT | A (END OF F | Y 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 4531 | 114 | 1269 | 3262 |
| CIVILIAN | 3707 | 35 | 678 | 3029 |
| TOTAL | 8238 | 149 | 1947 | 6291 |
| | | | | |
| | SPACE | AND PROPERT | Y | |
| ACRES | SPACE (THOUSANDS | OF SQUARE F | EET) COST (| MILLION \$) |
| | LAR ADMI | - | | OP EQUIP |
| 464795 | 676.611 944.74 | 4 6656.315 | 8277.670 210.8 | 61 223.159 |

...MISSION
EXPL ADV ENGR DEV AND TEST EVAL INITIAL ACQUISITION OF NONNUCLEAR MUNS
CONDUCTS TESTS & EVALUATIONS IN FOLLOWING AREAS EMW AFWET COM/CONTROL
INTRUSION/INTERDICTION, ELECTRO/OPTICAL, CLIMATIC SIMULATION, VERTICAL
PROBES. PERFORMS COMBAT TECH APPL. SUPPORTS TESTS OF OTHER AGENCIES.

...CURRENT IMPORTANT PROGRAMS
DEFENSE SUPPRESSION
SEEK BAT
MODULAR WEAPON SYS EMS
CLOSE AIR SUPPORT
ADVANCED AERIAL TARGETS - HAST AND PQM-102

...FUNCTIONS/EQUIPMENT/CAPABILITIES
A CAPABILITY OF SCIENTIFIC/ENGINEERING PERSONNEL AND LABORATORIES FOR
EXPL ADV & ENGR DEV IN THE AREA OF NONNUCLEAR MUNITIONS. ARMAMENT SYS
TEST ENVIRONMENT COVERING 728 SQ MI WITH LARGE ADJACENT WATER AREA.
HAS 28 TEST AREAS WITH INSTRUMENTED FACILITIES INCLUDING PRECISION
TRACKING RADARS AND PHOTO-OPTICS. IS USED FOR MUNITIONS TESTS AND
ELECTROMAGNETIC TEST ENVIRONMENT, IS AN INSTRUMENTED COMPLEX OF THREAT
SYSTEMS FOR EVALUATION OF EMW DEVICES AND TECHNIQUES. WEAPONS
EFFECTIVENESS AND SYS TEST ENVIRONMENT PROVIDES A REALISTIC ENVIRONMENT
FOR TESTING A WPNS SYS AGAINST AN ACTIVE DEFENSE SYSTEM. A CLIMATIC LAB
CAPABLE OF TESTING COMPLETE WPNS SYSTEMS. A PROBE LAUNCH FACILITY FOR
LAUNCHING SCIENTIFIC PROBES. A COMPUTER SCIENCES LAB. A PHYSICAL
SCIENCES LAB. A PHOTO LAB. AN INSTRUMENTATION/DESIGN/FAB FACILITY.

C.O. COL WARD E. PROTSMAN CHIEF SCIENTIST D.R. EASTMAN

| | PROGRA | M DATA BY | FISCAL Y | | ION \$) |
|----------------|----------------|------------|----------|-----------|------------------|
| PROGRAM | | 1972 | | 1973 | |
| | | (ACTUAL) | (A) | CT + EST) | |
| TOTAL ROTEE | | 55.06 | .3 | 47.340 | |
| TOTAL PROCUREM | ENT | 2.15 | 7 | 4.303 | |
| MAG LATOT | | 1.81 | .8 | 1.260 | |
| TOTAL OTHE | | 5.37 | '8 | 4.231 | |
| TOTAL ANNUAL L | AB | 64-41 | ,6 | 57-134 | |
| TOTAL INHOUSE | | 10.28 | 16 | 14.126 | |
| TOTAL INHOUSE | RDT&E | 8.87 | - | 12.617 | |
| ANNUAL GPERATI | · · · = = | 4.23 | | 4.231 | |
| | PERSONNEL D | ATA (END | OF FY 19 | 972) | |
| PERSONNEL | AUTHORIZED | TOTA | | TOTAL | パのみ ー |
| | STRENGTH | PHO | S | PROF | PROF |
| MILITARY | 80 | | 4 | 62 | 18 |
| CIVILIAN | 146 | | 3 | 53 | 93 |
| TOTAL | 226 | | 7 | 115 | 111 |
| | SP A | CE AND PRO | PERTY | | |
| ACRES | SPACE (THOUSAN | | |) (| OST (MILLION \$) |
| | | | HER | | AL PROP EQUIP |
| 40118 | 1149.163 201. | 411 532. | 348 1 | 882.922 | 361.532 59.005 |

...MISSION
PRIMARY MISSION IS TO SUPPORT THE TIMELY ACQUISITION OF QUALATIVE
SUPERIOR AEROSPACE SYSTEMS BY CONDUCTING RESEARCH AND DEVELOPMENT TESTS
IN GROUND ENVIRONMENTAL TEST FACILITIES WHICH SIMULATE THE NECESSARY
FLIGHT CONDITIONS.

...CURRENT IMPORTANT PROGRAMS
COMPLETED F-15 ENG/INLET COMPATIBILITY AND PRELIMINARY ENGIN TESTING.
COMPLETED B-1 INLET AFTERBODY, ESCAPE CAPSULE AND WEAPONS COMPAT TESTS.
A-X ENGINE TEST PREPARATION WAS CONDUCTED.
DEFENCE SUPPRESSION DRONE/RPV WIND TUNNEL TESTS WERE CONDUCTED.
OTHER SIGNIF TESTS. MINUTEMAN, SPACE SHUTTLE, ABRES ECN PODS AIRBRN LASER

AEDC IS COMPRISED OF ABOUT 33 MAJOR TEST UNITS HAVING A CAPITAL VALUE OF MORE THAN \$400 MILLION. INCLUDED ARE 15 WIND TUNNELS WITH TEST SECTION SIZES TO 16 FT SQ AND SPEEDS RANGING FROM SUBSONIC TO MACH NO 22, SIX TURBINE ENGINE TEST CELLS WHICH CAN PROVIDE TRUE SIMULATION TO ABOVE MACH 3. FOUR ROCKET ALTITUDE TEST CELLS, THE LARGEST RATED AT ONE-HALF MILLION LBS THRUST, THREE HYPERBALLISTIC RANGES, AND FOUR SPACE SIMULATION CHAMBERS, THE LARGEST BEING 42 FT DIAM BY 82 FT HIGH. THESE TEST FACILITIES HAVE SUPPORTED THE DEVELOPMENT AND QUALIFICATION OF EVERY MAJOR AERONAUTICAL, MISSLE AND SPACE SYSTEM INITIATED SINCE 1954. THROUGH ADEQUATE PLANNING OF AN ENVIRONMENTAL TEST PROGRAM IN THESE FACILITIES, DEVELOPMENT PROGRAM MANAGERS CAN HELP TO ASSURE THAT SYSTEM DESIGN DEFICIENCIES ARE FOUND EARLY, PREVENTING COST AND SCHED OVERRUNS.

C.O. COL M. MICHAEL BONNER CH. SCIENTIST DR. B. H. LIST

| PROGRAM | 1972 | FISCAL YEAR (MI 1973 | |
|-----------------------|-----------------|---|--------|
| | (ACTUAL) | (ACT + EST | |
| TOTAL RDT&E | 100.8 | = : : : : : : : : : : : : : : : : : : : | |
| TOTAL PROCUREMENT | 0.0 | 00 0.0 | 00 |
| TOTAL OGM | 0.0 | 00 0.0 | 00 |
| TOTAL OTHER | 7.4 | 19 8.7 | 26 |
| TOTAL ANNUAL LAB | 108.2 | 77 101.9 | 69 |
| TOTAL INHOUSE | 8.6 | 82 8.5 | 85 |
| TOTAL INHOUSE ROTEE | 7.1 | 24 6.6 | 85 |
| ANNUAL OPERATING COST | 3.7 | 97 3.7 | 61 |
| PERS | ONNEL DATA (END | OF FY 1972) | |
| PERSONNEL AUTHORI | ZED TOT | AL TOTA | L NON- |
| STREN | GTH PH | DS PRO | F PROF |
| MILITARY 1 | 61 | 17 103 | 58 |
| CIVILIAN 5 | 84 | 20 354 | 230 |
| | · · · · · | 37 457 | 288 |

| | | SPACE AN | D PRUPER: Y | | | |
|--------|------------|-----------|-------------|---------|------------|----------|
| ACR ES | SPACE (THO | USANDS OF | SQUARE FE | ET) | COST (MILI | LION \$3 |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 264 | 218.583 | 5.304 | 264-277 | 488.164 | 21.008 | 35.638 |

...MISSION
MAINTAINS A BASE OF AVIONICS TECHEDEVELOPSEDEMONSTRATES COST-EFFECTIVE
AVIONIC SYSTEMS TO INPROVE OPERATIONAL CAPABILITIES IN NAV, COMM, EW, RECON
, SURVEILLANCEEWPN DEL.PROVIDE SYS SUPPORT TO AFSCEALL USAF OPERATIONAL
UNITSEMODIFICATION OF AVIONICS IN THE INVENTORY

---CURRENT IMPORTANT PROGRAMS
DEVELOP TECHNIQUES FOR TGT DE' _TION, TGT TRACKING WEAPON DELIVERY
EXPLOIT DIGITAL AVIONICS TECH FOR APPLICATIONS IN SPACE
DEVELOP GIMBALD ELECTROSTATIC GYRO FOR AIRCRAFT NAVIGATION (GEANS)
DEVELOP LASER COMMUNICATIONS FOR SPACE APPLICATIONS
DEVELOP FORWARD LOOKING ADVANCED MULTIMODE RADAR (FLAMR)

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCTS IN-HSE R+D TO MAINTAIN A HIGH DEGREE OF TECHNICAL COMPETENCE.
ACTS AS AFSC FOCAL POINT FOR INFO IN ASSIGNED TECHNICAL AREAS.EXECUTES
ASSIGNED PROJECTS FOR AND WORKS CLOSELY WITH ARMY, NAVY, NASA, ARPA, +OTHER
GOVT AGENCIES.SUPPORTS AFSC PROGRAMS AND INSURES THE RAPID APPLICATION
OF RESEARCH+TECHNOLOGY TO ADVANCED SYSTEMS.PROVIDES TECHNICAL SUPPORT TO
CURRENT+FUTURE SYSTEMS PROGRAMS+OPERATIONAL SUPPORT PROJECTS IN AREAS OF
ASSIGNED MISSION.PERFORM CONCEPTUAL PLANNING, ANALYSIS*STUDIES.MAJOR FAC/
EQUIP ARE-ELECTROOPTICAL SURVEILLANCE FAC WITH 48 IN APERATURE-DYNAMIC
ANALYZER FOR ADVANCED RECON SYSTEMS-LASER RESEARCH FAC-SOLID STATE
INTEGRATED CIRCUITS LAB ELECTROMAGNETIC TECHS COUNTERMEASURES LAB INCL
ECM UCM SIMULATION FAC.

C.O. COL WILLIAM K. MORAN CH. SCIENTIST DR. JOHN N. HOHARD

| | , ,,,, | | | MP 15MN 11188 | | |
|--------------|------------|----------|------------|---------------|-----------|----------|
| PROGRAM | | 1 | 972 | 1973 | | |
| | | (ACT | UAL) | (ACT + EST) | | |
| TOTAL RDT&E | | | 56.240 | 52.71 | .0 | |
| TOTAL PROCUR | EMENT | | 1.353 | 0.55 | 8 | |
| TOTAL DEM | | | 0.001 | 0.00 |)1 | |
| TOTAL OTHER | | | 3.365 | 2.13 | 10 | |
| TOTAL ANNUAL | LAB | | 60.959 | 55.39 | 19 | |
| TOTAL INHOUS | E | | 34.050 | 34.97 | 74 | |
| TOTAL INHOUS | E RDT&E | | 32.030 | 32.84 | - | |
| ANNUAL OPERA | TING COST | | 7.100 | 7.17 | 12 | |
| | PERSONN | EL DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOTAL | • | NON- |
| | STRENGTH | | PHDS | PROF | : | PR OF |
| MILITARY | 182 | | 14 | 70 | | 112 |
| CIVILIAN | 977 | | 159 | 599 | | 378 |
| TOTAL | 1159 | | 173 | 6 6 9 | | 490 |
| | | SPACE AN | ID PROPERT | Y | | |
| ACRES | SPACE (THO | | | | COST (MIL | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL F | REAL PROP | EQUIP |
| 859 | 614.773 | 19.708 | 125.916 | 760.397 | 20.554 | 64-228 |

PROGRAM DATA BY FISCAL YEAR (MILLION \$)

...MISSION

CONDUCTS AND SUPPORTS AF RELEVANT RESEARCH AND EXPLORATORY DEVELOPMENT IN ENVIRONMENTAL, ENGINEERING, AND PHYSICAL SCIENCES WITH MAJOR EMPHASIS ON GEOPHYSICS AND ELECTRONICS. ALSO CONDUCTS AND SUPPORTS SPECIFICALLY ASSIGNED ADVANCED DEVELOPMENT EFFORTS.

***CURRENT IMPORTANT PROGRAM"
IONOSPHERIC MAPPING AND FORE STING FOR COMMUNICATIONS
SHORT RANGE TERMINAL FORECAS: "NG
RADIATION HARDENING OF DEVICES AND INTEGRATED CIRCUITS
OPTICAL AND INFRARED BACKGROUND MEASUREMENTS
DENSITY SATELLITE MEAS FOR LOW ALTITUDE ORBITAL SYSTEMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCTS RESEARCH AND TECHNICAL DEVELOPMENT IN TERRESTRIAL, AEROSPACE,
OPTICAL, AND SOLAR PHYSICS, IN EM WAVE PROPAGATION, AND IN ELECTRONICS,
ENERGY CONVERSION, SOLID STATE AND INFORMATION SCIENCES RELATING TO AIR
FORCE NEEDS. EQUIPMENT AND FACILITIES INCLUDE RADIO AND OPTICAL TELE—
SCOPES FOR SOLAR RESEARCH: S,X,AND L DAND RADARS AND A C-130 AIRCRAFT
FOR METEOROLOGICAL RESEARCH: RUCKET AND BALLOON LAUNCH FACILITIES, TWO
KC-135 AND TWO C-130 AIRCRAFT FOR OPTICAL, UPPER ATMOSPHERIC AND NEAR
SPACE STUDIES: FACILITIES FOR GROWTH OF ELECTRONIC MATERIALS,
A VAN DE GRAAFF ACCELERATOR, COBALT 60 SOURCE, 12 MEV LINAC, 29 FOOT
MILLIMETER WAVE ANTENNA ALL FOR ELECTRONICS RELATED PROGRAMS, AND A
CDC 6600 COMPUTATIONAL NETWORK.

INSTALLATION EASTERN TEST RANGE

C.O. MG D.M. JONES

| | PROGRAM DATA BY FISCA | L YEAR (MILLION \$) |
|-----------------------|-----------------------|---------------------|
| PROGRAM | 1972 | 1973 |
| | (ACTUAL) | (ACT + EST) |
| TOTAL ROTGE | 153.255 | 118.333 |
| TOTAL PROCUREMENT | 0.666 | 2.553 |
| TOTAL OEM | 137.377 | 106.644 |
| TOTAL OTHER | 47.653 | 47.098 |
| TOTAL ANNUAL LAB | 338.951 | 274.628 |
| TOTAL INHOUSE | 115.506 | 107.623 |
| TOTAL INHOUSE ROTEE | 39.495 | 36.872 |
| ANNUAL OPERATING COST | 9-144 | 8.733 |
| | | |

| | PERSONNEL DATA | (END OF FY | 1972) | |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PPOF | PROF |
| MILITARY | 1507 | 34 | 103 | 1404 |
| CIVILIAN | 1875 | 1 | 112 | 1763 |
| TOTAL | 3382 | 35 | 215 | 3167 |

SPACE AND PROPERTY

ACRES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

18203 130.543 739.482 7044.196 7914.221 370.670 519.800

---MISSION
BALLISTIC MISSILE TESTING(R&D)
SPACE LAUNCH
DASO
OT/FOT

...CURRENT IMPORTANT PROGRAMS PERSHING ATLAS/AGENA USAF PROGRAMS TITAN 3 POLARIS POSEIDON

---FUNCTIONS/EQUIPMENT/CAPABILITIES
GUIDANCE VERIFICATION
TRACKING SHIP
TELEMETRY MISSILES/SATELLITES
RDR TRACKING MISSILES/SATELLITES
IMPACT SCORING
TELEMETRY SHIP
TELEMETRY AIRCRAFT
PHOTOGRAPHY
DATA PROCESSING
SPACE(AND MISSILE)LAUNCH FACILITY
COMMUNICATIONS
COMMAND CONTROL

C.O. COL C.A. SCOLATTI CH. SCIENTIST DR. DEMETRIUS ZONARS

| | PROC | SRAM DATA I | BY FISCAL | L YEAR (MI | LLION \$) | • |
|----------------|--------------|-------------|-----------|-------------|-------------|----------|
| PROGRAM | | 197 | 2 | 1973 | | |
| | | (ACTUA1 | _) (| (ACT + EST. |) | |
| TOTAL ROTGE | | 68 | .472 | 46.8 | 46 | |
| TOTAL PROCURE | IENT | 0. | .000 | 0.0 | 00 | |
| MAG JATOT | | 0. | 640 | 0.1 | 2.5 | |
| TOTAL OTHER | | £. | 765 | 2.0 | 58 | |
| TOTAL ANNUAL L | , A 8 | 70 | .877 | 49.0 | 29 | |
| TOTAL INHOUSE | | 24 | 587 | 22.4 | 4 .7 | |
| TOTAL INHOUSE | POTRE | | 822 | 20.3 | • • | |
| ANNUAL OPERATI | | | 305 | 4.5 | | |
| ANNUAL OFERATI | ,80 0031 | | , 30) | 7.0 | LU | |
| | PERSONNEI | DATA (E | ND OF FY | 1972) | | |
| PERSONNEL | AUTHORIZED | T | DTAL | TOTA | L | NON- |
| | STRENGTH | | PHDS | PRO | F | PROF |
| MILITARY | 198 | | 4 | 97 | | 101 |
| CIVILIAN | 941 | | 34 | 511 | | 430 |
| TOTAL | 1139 | | 38 | 608 | | 531 |
| | , | SPACE AND | DDODED TV | | | |
| ACRES | SPACE (THOU | • | | | COST (MI | LITON EL |
| MUNES | L AB | ADMIN | OTHER | | REAL PROP | |
| 90 | | | 26.000 | 627.730 | 22.705 | |

...MISSION

IDEVEL OF CONTROL CONFIGURED FLT VEH DES FOR ACTIVE FLUTTER, RIDE AND MANUVER CONTROL ZAIR CUSHION LANDING GEAR DEVEL 3DETERM OF DYNAMIC CHARACTERISTICS OF COMPOSITE STRUCTURES 4EXPER TO OBTAIN DES CRITERIA ON DELAY BUFFET ONSET TRANSONIC SPEEDS

...CURRENT IMPORTANT PROGRAMS
DETERMINED DESIGN CRITERIA FOR JOINTS IN FILAMENT COMPOSITE STRUCTURES
COMPL FIELD TESTS ESTAB AURAL DETECTION CRITERIA FOR QUIET AIRCRAFT
PREPARED DESIGN GUIDELINES RE FRACTURE MECHANICS FOR AIRCRAFT APPLICATIO
GROUND SIMULATION OF B-1A FLT CONTROL SYS FOR 3 CONTRACTORS DESIGNS
FLIGHT DEMONSTRATION POWERED EJECTION SEAT FOR INCREASED CREW SURVIVAL

...FUNCTIONS/EQUIPMENT/CAPABILITIES

1DEVELOP FLIGHT CONTROL SYSTEM AND PILOTS DISPLAY FOR LANDING SYSTEM
FOR ZERO ZERO WEATHER 2DEVELOP OTPIMAL FLIGHT VEHICLE DESIGN CRITERIA
FOR NON-NUCLEAR COMBAT SURVIVABILITY 3DESIGN FLIGHT CONTROL SYSTEM FOR
TACTICAL AIR TO GROUND AND AIR TO AIR PRECISION WEAPON DELIVERY 4DEMONSTRATE FULL SCALE AIR CUSHION LANDING GEAR PERMITTING MAXIMUM FLEX1BILITY IN SITES FOR GROUND CARGO DELIVERY BY AIRCRAFT 5INTEGRATE TECHNOLOGIES FOR DESIGN OF ACFT FOR OPTIMAL TRANSONIC COMBAT EFFECTIVENESS
PLAN AND EXECUTE USAF EXPLORATORY AND ADVANCED DEV PROGRAMS FOR AEROSPCE
FLT VEHICLE STRUCTURES FLT MECHANICS FLT CONTROL VEHICLE DYNAMICS AND
VEHICLE EQUIPMENT PROVIDE TECH OR MGT ASSIST IN SUPPORT OF STUDIES ANALYSES DEV PLANS TEST EVALUATION MODIFICATION OF AEROSPACE SYS AND EQUIP

ALCOHOLOGICA CONTRACTOR OF THE

C.O. BG M.L. LANE CHIEF SCIENTIST COL R.C. LATAROP

| PROGRAM | PRO | | TA BY FISC 1972 | AL YEAR (MI 1973 | LLION \$) | |
|---------------|-------------------|---------|--------------------|---------------------|-----------|----------|
| riconan | | | TUAL) | (ACT + EST | .) | |
| TOTAL RDT&E | | | 49.619 | 47.4 | - | |
| TOTAL PROCURE | MENT | | 0.005 | 0.0 | 32 | |
| TOTAL OEM | | | 2.560 | 2-1 | .25 | |
| TOTAL OTHER | | | 28.106 | 30.9 | 942 | |
| TOTAL ANNUAL | LAB | | 80.290 | 80 - 5 | 553 | |
| TOTAL INHOUSE | • | | 64.978 | 67.4 | 13 | |
| TOTAL INHOUSE | RDT&E | | 35.641 | 35 • 8 | 378 | |
| ANNUAL OPERAT | ING COST | | 10.532 | 11-6 | 79 | |
| | PERSONNEL | DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOT | NL | NON- |
| | STRENGTH | | PHDS | PRO |)F | PROF |
| MILITARY | 3101 | | 20 | 27 | L | 2830 |
| CIVILIAN | 1775 | | 0 | 174 | , | 1601 |
| TOTAL | 4876 | | 20 | 449 | 5 | 4431 |
| | : | SPACE A | ND PROPERT | Y | | |
| ACRES | SPACE (THOU: | SANDS O | F SQUARE F | EET) | COST (MIL | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 246323 | 541.686 3 | 23-084 | 6405-099 | 7269-869 | 178-899 | 423-455 |

---MISSION
PLAN/CONDUCT QUANTITATIVE ENG, DEVELOPMENT TEST & EVALUATION OF MANNED/
UNMANNED AERO VEH. EVAL INCLUDING AERODYN PERF/STAB/CONTROL, SYS & SUBSYS
GND SUPT EQUIP.MAINTAINABILITY/RELIBLTY AERO DECELTRS, CONDUCT PSCH TO SP
T MSN. OPR AF TST PLT SCH.SUPPORT .NASA, DOD, GOV CONTRACTOR

...CURRENT IMPORTANT PROGRAMS
DRONE/REMOTELY PLTD VEH DT&E(SYS/PROG 468A)
A/X PROTOTYPE DEVELOP (SYS/PROG 329A)
ADV SPACE TECH/COMPONETS(SYS/PROG 69AJ) PCHT & AERIAL RECOVERY
F-111 & FB-111 (SYS/PROG 324A) DT&E
F-5(E) (SYS/PROG 330B) DT&E

***FUNCTIONS/EQUIPMENT/CAPABILITIES
TECHNICAL FACILITIES AND EQUIPMENTS ARE AVAILABLE TO PROVIDE A COMPLETE
RANGE OF SERVICES FOR CONDUCTING DIGE FLT TEST OF AERONAUTICAL SYSTEMS&
CONDUCT FLIGHT EVALUATION AND RECOVERY OR REVRIEVAL OF RESEARCH VEHICLES
,TRAIN TEST PILOTS. ENGINEERING LABS,REALTIME INSTRUMENTED RANGES,DATA
COLLECTION,REDUCTION AND ANALYSIS LABS,PHOTO/TV,ACT/ENGINE/MAINT,TST EQP
AND ELECTRONICS SHOPS ALONG WITH A COMPLEX OF DRY LAKES FOR RECOVERY AND
EMERGENCY LANDING PROVIDES VARIOUS SUPPORT FOR ALL TST PROGRAMS OTHER
MAJOR FACILITIES ARE:PRECISION IMPACT,GUNNERY/BOMB,PHOTO RESOLUTION,INFA
RED,RADAR FIDELITY,TACTICAL,&OPTICAL RANGES&CONTRACTOR ASSIGNED HANGARS,
SHOPS,LABS,AND OFFICE SPACES MUNITIONS STORAGE AND CHECKOUTS JOINT PARAC
HUTE TEST FACILITY AT EL CENTRO NAF &ENGINEERING SIMULATION LAB.

COMMANDING OFFICER COL MILTON D SPRINKEL

| | PROGR A | | L YEAR (MILLION | \$} |
|----------------|-------------|------------------|-----------------|--------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL RDT&E | | 0.570 | 0.525 | |
| TOTAL PROCUREM | ENT | 0.570 | 0.525 | |
| TOTAL DEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.400 | 0.400 | |
| TOTAL ANNUAL L | AB | 1.540 | 1.450 | |
| TOTAL INHOUSE | | 1.540 | 1.450 | |
| TOTAL INHOUSE | RNT&E | 0.570 | 0.525 | |
| ANNUAL OPERATI | NG COST | 0.018 | 0.020 | |
| | PERSONNEL D | ATA (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 22 | 11 | 22 | 0 |
| CIVILIAN | 9 | 1 | 2 | 7 |
| TOTAL | 31 | 12 | 24 | 7 |
| | SP A | CE AND PROPERTY | , | |
| ACRES | | ILS OF SQUARE FE | | (MILLION \$) |
| | | MIN OTHER | TOTAL REAL | |
| 0 | - | 860 0.240 | | 287 1.483 |

...MISSION
CONDUCT RESEARCH IN AEROSPACE MECHANICS, APPLIED MATHEMATICS & CHEMISTRY.
ENCOURAGE & SUPPORT ACADEMY FACULTY & CADET RESEARCH BY DIRECT PARTICIPATION, MONITOR FACULTY CONSULTANT PROG, SUMMER LAB PROG, FOCAL POINT FOR

PATION, MONITOR FACULTY CONSULTANT PROG, SUMMER LAB PROG, FOCAL POINT FOR USAF ACADEMY RESEARCH PROPOSED TO THE DOL RESETECH LABORATORIES (AFSC)

...CURRENT IMPORTANT PROGRAMS
FUEL CELL AND BATTERY STUDIES-ALUMINUM ANODES IN MOLTEN SALT ELECTROLYTE
SYNTHISIS AND CHARACTERIZATION OF ORGANOMETALLIC MONOMERS & POLYMERS -MODELING OPTIMIZATION PROGRAMING AND CONTROL (MATH MODELS GUIDANCE SYS.)
DIFFERENTIAL GAMES (IMPERFECT INFO), NONLINEAR CONTROL THEORY & ESTIMATES
MECH OF FLUIDS (LOW DENSITY SHOCK WAVES, RAM-WING THEORY, AERODYNAM SHAPES

***FUNCTIONS/EQUIPMENT/CAPABILITIES
MATH MODELING OPTIMIZATION CONTROL AND GUIDANCE SYSTEMS USING BURR B6700
COMPUTER. DRGANDMETALLIC & ELECTROCHEM & NITROALIPHATIC AND FLUGRCNITROALIPHATIC CHEMISTRY USING 6 POSITION LAB & INSTRUMENT ROOM CONTAINING
ANAL NUC MAG RESONATOR SPECTROMETER, X-RAY EQUIPMENT, INFRARED SPECTROPHOTOMETER, MASS SPECTROMETER, AUTOMATIC GAS CHROMATOGRAPH & OTHER EQUIP.
FLUID DYNAMICS RESEARCH USING 17 INCH LOW DENSITY SHOCK TUBE AND ASSOCIATED INSTRUMENTATION, 2 INCH HIGH DENSITY SHOCK TUBE & WIND TUNNELS.
ADVANCED ANALYSIS AND EVALUATION TECHNIQUES FOR INERTIAL GUIDANCE SENSOR
S USING TWO-AXIS TEST TABLE (GYRO), AUTOMATIC AZIMUTH ALIGNMENT EQUIP AND
ELECTRONIC CONTROL EQUIPMENT FOR 50 SERIES INERTIAL DEVICES LOCATED IN A
CLASS 1000 CLEAN LAB ON 80 TON AIR SUPPORTED STABLE PLATFORM.

THE RESERVE THE RE

C.D. COL GEORGE K. PATTERSON CH. SCIENTIST DR. H.L. PARRIS

| | PROGRAM DATA_BY FISCA | |
|-----------------------|-----------------------|-------------|
| PROGRAM | 1972 | 1973 |
| | (ACTUAL) | (ACT + EST) |
| TOTAL RDT&E | 10.090 | 12-848 |
| TOTAL PROCUREMENT | 0.000 | 0.000 |
| TOTAL OEM | 0.000 | 0.150 |
| TOTAL OTHER | 1.258 | 1.482 |
| TOTAL ANNUAL LAB | 11.348 | 14.480 |
| TOTAL INHOUSE | 4.472 | 5.357 |
| TOTAL INHOUSE ROTGE | 3,214 | 3.875 |
| ANNUAL OPERATING COST | 0.836 | 0.970 |
| | | |

| | PERSONNEL DATA | (END OF FY | 1972) | |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 134 | 7 | 91 | 43 |
| CIVILIAN | 231 | 38 | 116 | 115 |
| TOTAL | 365 | 45 | 207 | 158 |

| | | SPACE AN | D PROPERTY | | | |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE | ET) | COST (MILL | ION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 13 | 62.679 | 29.544 | 31.539 | 123.762 | 1.925 | 4.102 |

PRINCIPAL AF INTERFACE WITH SCIENCE, INDUSTRY AND OTHER GOVT AGENCIES FOR MANAGEMENT OF BASIC, EXPLORATORY, AND ADVANCED DEVELOPMENT RED PROGRAM IN PERSONNEL SELECTION, MANAGEMENT AND TRAINING, AND THE EVALUATION OF NEW TECHNICAL DEVELOPMENTS FOR APPLICATION TO AF PROBLEMS.

...CURRENT IMPORTANT PROGRAMS
HUMAN FACTORS IN DESIGN OF TRAINING SYSTEMS. SIMULATION TECHNIQUES FOR
AEROSPACE CREW TRAINING. ADVANCED INSTRUCTIONAL SYSTEMS AND ADVANCED
SIMULATION FOR UNDERGRADUATE PILOT TRAINING.
DESCRIBING, EVALUATING AND STRUCTURING AIR FORCE DECUPATIONS.
DOD MANPOWER DEVELOPMENT PROGRAM EVALUATION AND IMPROVEMENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FUNCTIONAL AREAS OF OCCUPATIONAL ANALYSIS, PERSONNEL PROCUREMENT,
PERSONNEL CLASSIFICATION, RETENTION AND SEPARATION, PERSONNEL SYSTEM
COMPUTER SIMULATION MODELS, MANPOWER ROMTS OF AF WEAPONS SYS TRAINING
TECHNIQUES, DESIGN OF SIMULATORS AND OTHER TRAINING DEVICES CAPABILITIES
CONDUCT TRAINING RESEARCH ASSOC. WITH PILOT TRAINING USING SOPHISTICATED
HIGH-FIDELITY A/C SIMULATOR, ADVANCED INSTRUCTIONAL SYS FOR INDIVIDUALLY
PACED COMPUTER AIDED TECH INSTRUCTION, CHECKOUT AND MAINT OF ELECTRONIC
EQUIP, TECH AND PROF LIBRARY, PERSONNEL TESTING ROOMS, AUDIO VISUAL EQUIP
RESEARCH SIMULATOR COCKPIT, INFINITY OPTICS DISPLAY, RAYTHEON PB440 DIGITL
COMPUTER, IBM 7040 ELECTRONIC DATA PROCESSING SYSTEM WITH 6 TAPES DISC
FILE, CARD READ/PUNCH PRINTER AND INQUIRY STATION, VISUAL DISPLAY DEVICE
ELECTRONICS ASSOCIATES TR48 ANALOG COMPUTER.

THE PERSON NAMED IN THE PARTY OF THE PARTY O

C.O. COL R.K. SAXER ACTG. DEPUTY DIR. R.T. SCHWARTZ

| | PROGRAM | DATA BY FISCA | L YEAR (MILLION \$) |) |
|----------------|-----------------|----------------|---------------------|-------------|
| PROGRAM | | 1972 | 1973 | |
| | | (ACTUAL) | (ACT + EST) | |
| TOTAL ROTEE | | 44.909 | 35.844 | |
| TOTAL PROCUREM | ENT | 10.161 | 13.705 | |
| TOTAL OEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 0.973 | 0.945 | |
| TOTAL ANNUAL L | AB | 56.043 | 50.494 | |
| TOTAL INHOUSE | | 10.676 | 11.570 | |
| TOTAL INHOUSE | RDT&E | 9.703 | 10-625 | |
| ANNUAL OPERATI | NG COST | 2.445 | 2.887 | |
| | | TA (END OF FY | | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PROF |
| MILITARY | 60 | 20 | 60 | 0 |
| CIVILIAN | 337 | 46 | 2 45 | 92 |
| TOTAL | 397 | 66 | 305 | 92 |
| | SPAC | E AND PROPERTY | | |
| ACRES | SPACE (THOUSAND | S OF SQUARE FE | | MILLION \$) |
| | LAB ADM | IN OTHER | TOTAL REAL PRO | OP EQUIP |
| 9 | 0-117 0-0 | 0.038 | 0.216 6.79 | 50 10.396 |

PLAN, FOR MULATE AND EXECUTE RESEARCH, EXPLORATORY AND ADVANCED DEVELOPMENT AND MANUTACTURING METHODS FOR NEW MATERIALS OF ALL CLASSES IN SUPPORT OF THE AF MISSION. ACT AS AFSC FOCAL POINT FOR MATERIALS TECHNOLOGY INFO. INSURE TIMELY TRANSITIONING OF NEW MATERIALS AND TECHNOLOGY TO AF SYSTEM

...CURRENT IMPORTANT PROGRAMS
MATERIALS AND TECHNIQUES FOR A/C STRUCTURAL INTEGRITY AND RELIABILITY.
MATERIALS AND TECHNIQUES FOR AF WEAPONS SURVIVABILITY AND HARDENING.
TACTICAL AND LIMITED WARFARE MATERIALS AND TECHNOLOGY SUPPORT.
MANUFACTURING TECHNOLOGY OF NEW MATERIALS FUR SYSTEMS APPLICATION.
ADV COM/OSITES, METALS AND ALLOYS FOR AIRFRAME AND PROPULSION STRUCTURES.

***FUNCTIONS/EQUIPMENT/CAPABILITIES
MATERIALS RESEARCH AND DEVELOPMENT FACILITIES AND CAPABILITIES FOR:
AEROSPACE STRUCTURES, TPS FOR BALLISTIC RV, AND ENGINES, FLUIDS, LUBRICANTS,
FLUID CONTAINMENT, PROPULSION, COATINGS, FIBERS, ARMOR, EM WINDOWS, SENSORS,
DISPLAYS, LASERS AND OPTICAL DEVICES, ELECTRONIC COMPONENTS, NON-DESTRUCT
TESTING, POLYMERS, ADHESIVES, NONMETALLIC MATRIX COMPOSITES, ELASTOMERS,
METALS, ALLOYS, METAL AND CERAMIC COMPOSITES, METAL PROCESSING,
INTERMETALLICS, CERAMICS, STATIC AND DYNAMIC BEHAVIOR, JOINING, GRAPHITE,
ELECTRONIC AND MAGNETIC MATERIALS, PHYSICAL CHEMICAL ANALYSIS. OTHER
MAJOR MATERIALS FUNCTIONS: MANUFACTURING TECHNOLOGY, SYSTEMS APPLICATION
SYSTEMS SUPPORT.

C.O. COL THOMAS A. MCCREERY CH. SCIENTIST DR. FRANK KELLEY

| PROGRAM | PROGRAM | DATA BY FISCAL | L YEAR (MILLION 1973 | 5) |
|------------------|--------------------|----------------|----------------------|--------------|
| PROGRAM | | | - | |
| | | | (ACT + EST) | |
| TOTAL ROTEE | | 25.851 | 22-416 | |
| TOTAL PROCUREM | ENT | 0.000 | 0.000 | |
| TOTAL GEM | | 0.000 | 0.000 | |
| TOTAL OTHER | | 3.899 | 2.636 | |
| TOTAL ANNUAL L | AB | 29.750 | 25.052 | |
| TOTAL INHOUSE | | 13.123 | 13.166 | |
| TOTAL INHOUSE | RD T& E | 10.624 | 10.530 | |
| ANNUAL OPERATION | NG COST | 0.280 | 0-270 | |
| | PERSONNEL DA | TA (END OF FY | 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PRQF | PROF |
| MILITARY | 188 | 17 | 91 | 97 |
| CIVILIAN | 298 | 6 | 104 | 194 |
| TOTAL | 486 | 23 | 195 | 291 |
| | SPAC | E AND PROPERTY | | |
| ACRES | SPACE (THOUSAND | | ET) COST | (MILLION \$) |
| | LAB ADM | | TOTAL REAL S | |
| 54400 | 419.046 99.2 | | | 869 24-003 |

...MISSION
PLAN. FORMULATE, PRESENT, AND EXECUTE THE AFSC EXPLOR AND ADV DEVELOPMENT PROGRAMS IN ROCKET PROPULSION SYS, COMPONENTS, PROPELLANTS AND
ACCOCD EQUIP. CONDUCT IN-HOUSE RSCH. SUPPORT DEPLOYED AND DEVELOPMENTAL
SYSTEMS. ACT AS AFSC FOCAL POINT FOR INFO IN THE ASSIGNED TECH AREAS.

...CURRENT IMPORTANT PROGRAMS
INCREASE ICBM RANGE/PAYLOAD/PENETRATION CAPABILITIES AND IMPROVE SERVICE
LIFE PREDICTION. INCREASE LIFE OF SATELLITE SYS. INCREASE ABILITY OF
STRATEGIC ACFT TO PENTRATE TO THE TARGET. PROVIDE MAX PROPULSIVE
MANEUVERING FOR SPACECRAFT. IMPROVE ACCURACY AND REDUCE COSTS OF
TACTICAL ARMAMENT.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
A COMPONENT TEST LAB AND CENTRIFUGE FOR TESTING SMALL PROPULSION SYS AND COMPONENTS UNDER SIMULATED SPACE ENVIRONMENTS, FACILITIES FOR FORMULATG AND TESTING NEW SOLID AND LIQUID PROPELLANT RKT MOTORS. A CHEM LAB FOR SYSNTHESIS, ANALYSIS, AND FORMULATION OF NEW PROPELLANTS. A SOLID MOTOR TEST AND EVAL COMPLEX FOR INVESTIGATION OF COMBUSTION, AGING, STRUCTURAL INTEGRITY AND HOT COMPONENTS. AMBIENT AND ALTITUDE TESTING OF TOXIC RKTS UP TO 50,000 LB THRUST. HOT AIR CAPABILITY TO TEST AIR BREATHING PROPULSION. A FACILITY FOR TESTING REENTRY NOSE CONES. A FACILITY FOR TESTING RKT ENGINES UP TO 10,000,000 LB THRUST. IN-HOUSE ANALYTICAL CAPABILITY FOR W/S PROPULSION SYS OPTIMIZATION, TRADE-OFF AND MISSION STUDIES. A COMPUTER FACILITY FOR DESIGN, ANALYSIS, AND TEST DATA REDUCTION. SHOPS FOR FABRICATING TEST HARDWARE AND TEST SYSTEMS.

C.O. COL P.N. LARSEN CHIEF SCIENTIST DR. IRVING GABELMAN

| PROGRAM | PROGRA | M DAT≯ BY 1972 | FISCAL YEAR | (MILLION .973 | \$) |
|----------------|----------------|-------------------|-------------|------------------|--------------|
| PRUGRAM | | | _ | | |
| | | (ACTUAL) | , | | |
| TOTAL RDT&E | | 92.74 | | .05.564 | |
| TOTAL PROCURER | IENT | 32.37 | 77 | 21.350 | |
| TOTAL DEM | | 7.09 | 56 | 5.480 | |
| TOTAL OTHER | | 37.02 | 2 7 | 40.203 | |
| TOTAL ANNUAL L | ,AB | 169.20 | o5 1 | 72.597 | |
| TOTAL INHOUSE | | 37.1 | 79 | 36.484 | |
| TOTAL IMHOUSE | RDT&E | 31.92 | 2 7 | 31.709 | |
| ANNUAL OPERATI | ING COST | 10.5 | 71 | 9.360 | |
| | PERSONNEL D | ATA (END | OF FY 19721 |) | |
| PERSONNEL | AUTHORÍZED | TOT | AL | TOTAL | NON- |
| | STRENGTH | PHO |)S | PROF | PROF |
| MILITARY | 325 | | 6 | 119 | 206 |
| CIVILIAN | 1130 | 1 | 15 | 525 | 605 |
| TOTAL | 1455 | | 21 | 644 | 811 |
| | SPA | CE AND PRO | OPERTY | | |
| ACRES | SPACE (THOUSAN | DS OF SQUA | ARE FEET) | COST | (MILLION \$) |
| | LAB AD | MIN O | THER TOT | TAL REAL | PROP EQUIP |
| 2817 | 719.708 92. | | 531 1050 | | -351 72-699 |

PLANS AND EXECUTES EXPLORATORY AND ADVANCED DEVELOPMENT PROGRAMS FOR ELECTROMAG INTELLIGENCE AND RECON PROCESSING, DISPLAYS, SURVEILLANCE, RELIABILITY AND COMPATIBILITY, COMMUNICATIONS FOR AIR FORCE, DOD AND OTHER CRGANIZATIONS, PROVIDES TECHNICAL CONSULTATION TO MAJOR AIR COMMANDS.

---CURRENT IMPORTANT PROGRAMS

OVER THE HORIZON DETECTION EXPERIMENTS AND DEVELOPMENTS

INTELLIGENCE AND RECON EXPLORATORY DEVELOPMENTS AND FIELD SUPPORT

INTEGRATED COMMUNICATION NAVIGATION AND IDENTIFICATION TECHNIQUES

PAVE ONYX (ADVANCED LOCATION STRIKE SYSTEM)

ELECTROMAGNETIC RELIABILITY AND COMPATABILITY TECH AND FIELD SUPPORT

PROVIDES A WELL BALANCED COMBINATION OF PROFESSIONAL SKILLS AND EXPERIMENTAL FACILITIES TO MARRY THEORETICAL STUDIES TO POTENTIAL APPLICATION. BY COMBINATION OF AURBORNE LABORATORY MEASUREMENT IN INSTRUMENTED FLIGHT TEST AIRCRAFT AND FLEXIBLE ON-BASE AND OFF-BASE EXPERIMENTAL SITES, A HIGH DEGREE OF SOPHISTICATION IS ACHIEVED FOR CONDUCTING GROUND ELECTROMAGNETIC STUDIES AND EXPERIMENTS. CAPABILITIES ARE AVAILABLE FOR CONDUCTING HIGH AND LOW-POWER EXPERIMENTS OVER ELECTROMAGNETIC SPECTRUM FROM EXTREMELY LOW FREQUENCIES TO LIGHT. SCIENTIFIC STUDIES ARE PERFORMED USING ONE OF THE NATIONS LARGEST ON-LINE TIME SHARING COMPUTERS. RESOURCES ARE PRIMARILY USED IN EXPLORATORY AND ADVANCED DEVELOPMENTS AND EXTENDING TO TECHNICAL SUPPORT THIRTY-FIVE OTHER AIR FORCE AND OOD ORGANIZATIONS.

C.D. MG JESSUP D. LOWE TECH. DIR. S.R. RADOM

| | PRO | | | AL YEAR (MI | LLIGN \$) | |
|----------------|-------------|----------|-----------|-------------|-----------|----------|
| PROGRAM | | | 972 | 1973 | | |
| | | | UAL) | (ACT + EST | ·) | |
| TOTAL RDT&E | | | 77.617 | 65.1 | .57 | |
| TOTAL PROCURES | 1ENT | | 0.000 | 0.0 | 00 | |
| TOTAL DEM | | | 0.000 | 0.0 | 00 | |
| YOTAL OTHER | | | 7.243 | 7.0 | 13 | |
| TOTAL ANNUAL I | . AB | | 84.860 | 72.1 | .70 | |
| | | | | | ** | |
| TOTAL INHOUSE | | | 26.595 | 24 - 4 | 88 | |
| TOTAL INHOUSE | RDT&E | | 19.452 | 17-6 | 75 | |
| ANNUAL OPERAT | ING COST | | 15.660 | 13.0 | 31 | |
| | PERSONNE | L DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED | | TOTAL | TOTA | \L | NON- |
| | STRENGTH | | PHDS | PRO |)F | PROF |
| MILITARY | 452 | | 5 | 253 | 1 | 199 |
| CIVILIAN | 395 | | 1 | 1 55 | i | 240 |
| TOTAL | 847 | | 6 | 408 | , | 439 |
| | | | | | | |
| | | SPACE AN | D PROPERT | Y | | |
| ACRES | SPACE (THOU | SANDS OF | SQUARE F | EET) | COST (MIL | LION \$) |
| | L AB | ADMIN | OTHER | TOTAL | REAL PROP | EQUIP |
| 45546 | 91.407 3 | 54.384 | 431.954 | 877.745 | 96-600 | 495.861 |

...MISSION
MANAGE SPACE AND MISSILE FIELD TEST OPERATIONS. INSURE TIMELY DEVELOPMENT OF TEST CAPABILITY INCLUDING PERSONNEL, FACILITIES, INSTRUMENTATION
AND DOCUMENTATION.

...CURRENT IMPORTANT PROGRAMS
MINUTEMAN II & III OPERATIONAL TRAINING
SAFEGUARD SYSTEM TEST TARGET PROGRAM-MINUTEMAN & TITAN BOOSTERS
ABRES PROGRAMS
CLASS & UNCLASS SPACE LAUNCHES USING ATLAS, THOR, TITAN & SCOUT BOOSTERS
MINUTEMAN III R&D

SAMTEC CAPABILITIES INCLUDE TEST LAUNCH AND RANGE SUPPORT. THE FORMER INCLUDES VEHICLE & PAYLOAD CHECKOUT, ASSEMBLY, & PRELAUNCH TESTING FOR BOOSTERS/WEAPON SYSTEMS SUCH AS THOR, ATLAS, TITAN 263, & MINUTEMAN 3. THE LA/TER INCLUDES BOTH LONG & SHORT RANGE INSTRUMENTATION PLANNING & SCHEDULING OF ORBITAL, BALLISTIC & PROBE LAUNCHES& AIRCRAFT FLYBY& AND OTHER TESTS. A VARIETY OF FIXED & MOBILE ELECTRONIC & OPTICAL INSTRUMENTATION IS AVAILABLE ON THE WEST COAST, PACIFIC ISLANDS, AND SHIPS & AIRCRAFT TO GATHER RANGE SAFETY AND PROGRAM TEST DATA. LAUNCH AZIMUTHS VARY FROM 165 TO 310 DEGREES. LAUNCH FACILITIES AND RANGE INSTRUMENTATION CAN BE RECONFIGURED TO MEET NEW PROGRAM REQUIREMENTS. IMPACT SCORING OF BALLISTIC PAYLOADS IS AVAILABLE AT TWO DOWNRANGE SITES AND IN THE BROAD OCEAN AREA.

C.O. COL EVAN R. GOLTRA

| | PRO | GRAM DATA B | FISCAL Y | YEAR (MILLION | \$) |
|---------------|-------------|-------------|------------|---------------|--------------|
| PROGRAM | | 1972 | | 1973 | |
| | | (ACTUAL: |) (AC | CT + EST) | |
| TOTAL ROTEE | | 10.0 | 386 | 10.383 | |
| TOTAL PROCURE | MENT | 0.5 | 536 | 0.550 | |
| YOTAL OEM | | 0.0 | 398 | 1.036 | |
| TOTAL OTHER | | 5 | 078 | 5.621 | |
| TOTAL ANNUAL | LAB | 17. | 398 | 17.590 | |
| TOTAL INHOUSE | | 15. | 196 | 15.539 | |
| TOTAL INHOUSE | RDT&E | 9.1 | 13 | 8.349 | |
| ANNUAL OPERAT | ING COST | 3. | 113 | 2.831 | |
| | PERSONNE | L DATA (EN | OF FY 19 | 972) | |
| PERSONNEL | AUTHORIZED | TO | TAL | TOTAL | NON- |
| | STRENGTH | PI | HD\$ | PROF | PROF |
| MILITARY | 603 | | 92 | 224 | 379 |
| CIVILIAN | 357 | | 40 | 127 | 230 |
| TOTAL | 960 | : | 132 | 351 | 609 |
| | | SPACE AND P | ROFERTY | | |
| ACRES | SPACE (THOU | | JARE FEET! | COST | (MILLION \$) |
| | L AB | A'DMIN (| THER | TOTAL REAL | PROP EQUIP |
| 93 | 452.395 | 95.830 5 | 9-114 6 | 507.049 15 | .377 21.932 |

---MISSION
PESFARCH IN LIFE SUPPORT AEROSPACE MEDICINE
BIOLOGICAL SCIENCES
CLINICAL EVALUATIONS
EDUCATION AND TRAINING

...CURRENT IMPORTANT PROGRAMS
BIOLOGICAL EFFEC'S OF COHERENT RADIATION
CABIN HABITABILITY STUDIES
ARMED FORCES ENTRANCE EXAMINING SYSTEM
PERFORMANCE DECREMENT NEUTRON GAMMA STUDIES AND RF RADIATION
DRUG DETECTION AND SCREENING STUDIES

USAF SCHOOL OF AEROSPACE MEDICINE RESEARCH IN AEROSPACE MED PROBLEMS ENVIRONMENTAL STRESS DEVELOPMENTAL ENGINEERING RADIOBIOLOGY LASER HAZARDS BIOMETRICS BIOSCIENCE BIOMED ENGINEERING AND EPIDEMIOLOGY FACILITIES WHOLE BODY COUNTER HUMAN CENTRIFUGE VARIOUS TEST CELLS AND CHAMBERS COCKCRAFT WALTON ACCELERATOR NEUTRON GENERATOR PHILCO 2000 DIGITAL COMPUTER ROTATIONAL FLIGHT SIMULATOR KILO CURIE CO 60 RADIATION SOURCE AEROSPACE MEDICAL SCIENCE LAB AEROSPACE MEDICAL CONSULTATIVE SERVICES AEROMEDICAL EVALUATION CLINICAL SCIENCE CCULO THERMAL RESEARCH OPTICAL AUDIOLOGY VESTIBULAR PSYCHOBIOLOGY RADIO ISOTOPE AEROSPACE MEDICAL STANDARDS AND LASER HAZARDS FACILITIES ZEISS PHOTO COAGULATOR VECTORCARDIOGRAPH MACHINE BALLISTOCARDIOGRAPH MACHINE PHONOCARDIOGRAPH MACHINE AND MASS SPECTROMETERS

INSTALLATION WEAPONS LABORATORY

C.O. COL ROBERT W. ROWDEN CH. SCIENTIST MAJ WM. A. WHITAKER

| 0000014 | PR | | | AL YEAR (MI | LLION \$) | |
|---------------|------------|----------|-----------|-------------|-----------|----------|
| PROGRAM | | _ | 972 | 1973 | _ | |
| | | | UAL } | (ACT + EST | - | |
| TOTAL ROTEE | | | 75.218 | 94.1 | 20 | |
| TOTAL PROCURE | MENT | | 0.000 | 1.4 | 50 | |
| MAG JATOT | | | 0.287 | 0.2 | 44 | |
| TOTAL OTHER | | | 10.199 | 10.6 | 07 | |
| TOTAL ANNUAL | LAB | | 85.704 | 106.4 | | |
| TOTAL INHOUSE | | | 40.866 | 42.1 | _ | |
| TOTAL INHOUSE | RDT&E | | 30.577 | 31.5 | 74 | |
| ANNUAL OPERAT | ING COST | | 0.000 | 0.0 | 00 | |
| | PERSONN | EL DATA | (END OF F | Y 1972) | | |
| PERSONNEL | AUTHORIZED |) | TOTAL | TOTA | L | NON- |
| | STRENGTH | | PHDS | PRO | F | PROF |
| MILITARY | 796 | | 96 | 572 | | 224 |
| CIVILIAN | 397 | | 20 | 188 | | 209 |
| TOTAL | 1193 | | 116 | 760 | | 433 |
| | | SPACE AN | D PROPERT | · Y | | |
| ACRES | SPACE (THO | | | | COST (MIL | LION \$) |
| | LAB | ADMIN | OTHER | | REAL PROP | EQUIP |
| 934 | 428.659 | 14-620 | 22-187 | 465.466 | 10.791 | |

PLAN AND EXECUTE RSCH, EXPLORATORY, ADV, AND ENGRG DEV PRGMS ON DEVICES, EFFECTS, AND HAZARDS FOR NUC, LASER, AND ADV WPNS. COND CIV ENGRG RDT&E PRGMS. DEV CRITERIA AND ASSESSES NUC HARDNESS OF WPN SYS. PROVIDES TECH ASSISTANCE FOR NUC WPN SYS INTEGRATION. FOCAL POINT FOR NUC SYS SAFETY ASPECTS.

...CURRENT IMPORTANT PROGRAMS
LASER WEAPON TECHNOLOGY
AEROSPACE FACILITIES TECHNOLOGY
NUCLEAR SURVIVABILITY/VULNERABILITY ANALYSIS AND TESTING
NUCLEAR SAFETY ANALYSIS AND DESIGN CRITERIA
NUCLEAR WEAPONS EFFECTS ANALYSIS AND TESTING

***FUNCTIONS/EQUIPMENT/CAPABILITIES
NUCLEAR WEAPONS EFFECTS RESEARCH, SIMULATION, SAFETY, TEST PARTICIPATION
AND ANALYSIS OF WEAPON SYSTEMS NUCLEAR HARDNESS ARE CONDUCTED IN NUCLEAR
ENGINEERING TEST LABORATORIES AND PHYSICS LABORATORIES. SIMULATION TESTS
ON MISSILES, AIRCRAFT, AND COMPONENTS USE ELECTROMAGNETIC PULSE SIMULATDRS, GAS GUNS, PULSE POWER, AND X-RAY DEVICES. LASER WEAPON DEVELOPMENT
USES LASER/OPTICS LABORATORIES AND TEST RANGE WITH LARGE, HIGH-POWER DEVICES. CIVIL ENGINEERING RESEARCH, EXPLORATORY, ADVANCED DEVELOPMENT AND
TESTING USES SOILS-, ENVIRONMENTAL-, AND CHEMICAL LABORATORIES AND SHOCK
TUBES FOR SIMULATION. TECHNICAL LIBRARY, METALLURGY- AND METROLOGY LABDRATDRIES, AN EQUIPMENT POOL OF VARIED DIAGNOSTIC AND METERING DEVICES,
DUAL CDC-6600 COMPUTERS WITH REMOTE TERMINALS AND MULTI-CHANNEL RECORDING AND DATA REDUCTION SUPPORT RESEARCH AND TESTS.

INSTALLATION 6570 AEROSPACE MEDICAL RESEARCH LABORATORY WPAFB, OH

C.O. COL C.L. HOLT

30

| PROGRAM | PROGRAM DA | TA BY FISC 1972 | AL YEAR (MILLION 1973 | \$) |
|--------------|------------------|--------------------|-----------------------|-------------|
| PRUGRAM | I AC | YUAL) | (ACT & EST) | |
| TOTAL ROTGE | 180 | 12.798 | 12.435 | |
| TOTAL PROCUR | FMENT | 0.000 | 0.000 | |
| TOTAL DEM | - Circles | 0.000 | 0.000 | |
| TOTAL OTHER | | 1.520 | 1.520 | |
| | 4 AD | 14.318 | | |
| TOTAL ANNUAL | LAD | 14.310 | 13.955 | |
| TOTAL INHOUS | E | 9.613 | 8.774 | |
| TOTAL INHOUS | | 8.093 | 7.254 | |
| | | | • • | |
| ANNUAL OPERA | TING CUST | 1.025 | 1.006 | |
| | PERSONNEL DATA | (END OF F | ¥ 1972) | |
| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |
| | STRENGTH | PHDS | PROF | PRCIF |
| MILITARY | 127 | 29 | 77 | 50 |
| | | _ | | |
| CIVILIAN | 168 | 26 | 96 | 72 |
| TOTAL | 295 | 55 | 173 | 122 |
| | SPACE | ND PROPERT | rv | |
| ACRES | SPACE (THOUSANDS | | | (MILLION S) |
| WA11 P. | LAB ADMIN | OTHER | TOTAL REAL P | |

---MISSION
CONDUCT R*T TO DEFINE MANS PERFORMANCE PHYSIOLOGICAL TOLERANCE, PERSONAL PROT NEEDS, AND DEVELOP PROTECTIVE TECHNIQUES AND EQUIP TO SUSTAIN AND ENHANCE HIS PERF IN AF OPERATIONAL ENVIRONMENTS TO EST DESIGN CRITERIA AND PROVIDE SUPPORT TO SYSTEM DEVELOPMENT IN ABOVE AFEAS

15.200

237.100

11.570

15-938

10.000

211-900

---CURRENT IMPORTANT PROGRAMS
DEFINE TOXIC HAZARDS ENVIR PULLUTION EFF OF MISSILE OPS PROPELLANT TEST
DEVELOP A HUMAN PERF METHOD TO COUNTER OPTICALLY AIMED WEAPONS
INV HELMET MOUNTED SIGHT SYS FOR FLT CONTROL AND WEAPON DELIVERY APPLNS
INV HIGH G PILOT SEAT CONTROLS * DISPLAYS DESIGN FOR OPS ABOVE 8 G.S
DETERMINE MANS EXP LIMITS, CAPABILITY, PROT REQ DURING ESCAPE FROM ADV A/C

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MAJOR FUNCTIONS 1.IDENTIFY, QUANTITATE AND DETERMINE TOXIC HAZARDS AND
ENVIRONMENTAL POLLUTION EFFECTS CREATED BY AF OPS 2.DEVELOP NEW CONCEPTS
AND DESIGN CRITERIA TO DEFINE MAN MACHINE SYSTEM EFFECTIVENESS IN AF OPS
3.PROVIDE HUMAN ENGINEERING DATA, PRINCIPLES AND TECHNIQUES APPLICABLE
TO DESIGN, TEST, OPS MAINTENANCE OF AF SYSTEMS AND EQUIP 4.STUDY EFFECTS,
DEFINE MANS TOLERANCE AND PERFORMANCE DURING BIODYNAMIC AND COMBINED
STRESS OF AF OPERATIONS
MAJOR EQUIP FACILITIES HUMAN ENGINEERING RESEARCH LAB, TOXIC HAZARDS
PESEARCH LAB, RESEARCH ANIMAL FACILITY, BIODYNAMIC NOISE, VIBRATION, IMPACT,
ACCELERATION AND COMBINED STRESS LAB MAN RATED ALTITUDE AND ENVIRONMENT
CHAMBER SIMULATION FACILITIES

INSTALLATION ARMED FORCES RADIOBIOLOGY RES. INSTITUTE

C.D. CAPT MYRON I. VARON

| | PRO | GRAM DATA | BY FISC | AL YEAR | (MILLIO | N \$) | |
|---------------|-------------|-----------|----------|---------|------------------|---------|---------|
| PROGRAM | | 19 | 72 | 19 | 973 | | |
| | | (ACTU | IAL) | (ACT + | EST) | | |
| TOTAL ROTEE | | | 3.127 | | 3.086 | | |
| TOTAL PROCURE | MENT | | 0.000 | | 0.000 | | |
| TOTAL DEM | | | 0.000 | | 0.000 | | |
| TOTAL OTHER | | | 0.856 | | 1.676 | | |
| TOTAL ANNUAL | LAU | | 3.983 | | 4.762 | | |
| TOTAL INHOUSE | | | 3.950 | | 4.362 | | |
| TOTAL INHOUSE | RDT&E | | 3.094 | | 3.046 | | |
| ANNUAL OPERAT | ING COST | | 1.043 | | 0.951 | | |
| | PERSONNE | L DATA (| END OF F | Y 1972) | | | |
| PERSONNEL | AUTHORIZED | | TOTAL | | TOTAL | | NON- |
| | STRENGTH | | PHDS | | PROF | | PROF |
| MILITARY | 83 | | 20 | | 47 | | 36 |
| CIVILIAN | 138 | | 14 | | 39 | | 99 |
| TOTAL | 221 | | 34 | | 86 | | 135 |
| | | SPACE AND | PROPERT | Υ | | | |
| ACRES | SPACE (THOU | | | - | COS. | T (MILL | ION \$1 |
| - | LAB | ADMIN | OTHER | TOY | | PROP | EQUIP |
| 10 | 24.660 | 14.906 | 32.913 | 72. | 479 ⁻ | 7.899 | 2.849 |

***MISSION
THE MISSION OF AFRRI SHALL BE TO
CONDUCT SCIENTIFIC RESEARCH IN THE FIELD OF RADIOBIOLOGY AND
RELATED MATTERS THAT ARE ESSENTIAL TO THE
MEDICAL SUPPORT OF THE DEPARTMENT OF DEFENSE

***CURRENT IMPORTANT PROGRAMS
BIOCHEMICAL DIAGNOSIS OF MALIGNANT AND METASTATIC TUMORS
ACUTE EFFECTS OF NON-IONIZING ELECTROMAGNETIC RADIATION
EFFECTS OF HEAD INJURY ON BLOOD FLOW AND BRAIN FUNCTION
NEURCLOGIC EFFECTS OF IONIZING RADIATION AND DRUGS
STIMULATION OF MARROW RECOVERY POSTIRRADIATION

FUNCTIONS/EQUIPMENT/CAPABILITIES
FUNCTIONS: OPERATE FACILITIES FOR CONDUCTING RADIOBIOLOGY RESEARCH AND
DISSEMINATING RESULTS& CONDUCT ADVANCED TRAINING& OPERATE FACILITIES FOR
PRODUCTION OF SHORT-LIVED RADIOISOTOPES& AND PERFORM OTHER SUCH RESEARCH
FUNCTIONS AS REQUIRED. MAJOR EQUIPMENT INCLUDES: PULSE AND STEADY STATE
NUCLEAR REACTOR, 50,000-CURYE COBALT-60 IRRADIATOR, POSITIVE ION
ACCELERATOR, ELECTRON MICROWAVE ACCELERATOR, AND X-RAY MACHINES,
WITH ASSOCIATED EXPOSURE ROOM COMPLEXES. SUPPORT SERVICES INCLUDE:
MEASUREMENT OF RADIATION FIELDS, PROVISION AND CARE OF LABORATORY
ANYMALS, EQUIPMENT DESIGN AND FABRICATION ASSISTANCE, REAL-TIME DATA
ACQUISITION SYSTEM, TELEVISION AND FILM DOCUMENTATION OF EXPERIMENTS,
PERSONNEL AND ENVIRONMENTAL MONITORING, EDITORIAL ASSISTANCE IN REPORT
PREPARATION, AND A LARGE TECHNICAL LIBRARY.

APPENDIX 1

Changes in Organization or Name *

Department of the Army

Previous

As of 1 July 1972

Behavioral Science Research Laboratory Washington, D.C.

Research Institute for Behavioral and Social Sciences Washington, D.C.

Biological Laboratories Fort Detrick, Maryland Disestablished.

Combat Surveillance Group Fort Monmouth, New Jersey Combat Surveillance and Target
Acquisition Laboratories
Fort Monmouth, New Jersey

Watervliet Arsenal Laboratories Watervliet, New York

Benet Weapons Laboratory Watervliet, New York

Missile Command R&D Laboratories Redstone Arsenal, Alabama

Missile Research, Development and Engineering Laboratory Redstone Arsenal, Alabama

General Equipment Test Activity Fort Lee, Virginia

Disestablished.

Airborne Electronics and Special Warfare Board Fort Bragg, North Carolina

Airborne Communications and Electronics Board Fort Bragg, North Carolina

Department of the Navy

Naval Ship Research and Development Laboratory Panama City, Florida (formerly component of Naval Ship Research and Development Center, Washington, D.C.) Now a separate activity.

Naval Training Devices Center Orlando, Florida

Deleted. In-house RDT&E less than 25% of total in-house effort.

Naval Electronics Systems Test and Evaluation Facility Patuxent River, Maryland

Deleted. In-house RDT&E loss than 25% of total in-house effort.

^{*}Changes since publication of Department of Defense In-House RDT&E Activities, 30 October 1971.

Department of the Air Force

Aerospace Medical Laboratory (clinical) Disestablished. Lackland AFB, Texas

APPENDIX II

Definitions

- 1. In-House RDT&E Activities—Those organizational entities engaged in performing work in any or all of the categories of research, development, test and evaluation. The RDI&E effort, however, should represent a minimum of 25 percent of the total effort of each entity reporting in order to be considered as an RDT&E activity.
- 2. Professionals--Full-time government scientific and engineering personnel actively engaged in RDT&E activities. In the case of civilians, this will include all those holding positions that fall into the following categories under the Civil Service Occupational Groups and Series of Classes, General Schedule:

| 150 | 440 | 665 | 871 | 1330 |
|-----|-----|-----|------|------|
| 180 | 454 | 668 | 880 | 1340 |
| 190 | 457 | 680 | 881 | 1350 |
| 193 | 460 | 690 | 890 | 1360 |
| 401 | 470 | 701 | 892 | 1370 |
| 403 | 471 | 801 | 893 | 1372 |
| 405 | 482 | 806 | 894 | 1382 |
| 410 | 486 | 808 | 896 | 1384 |
| 413 | 487 | 810 | 1301 | 1386 |
| 414 | 601 | 819 | 1306 | 1510 |
| 430 | 602 | 830 | 1310 | 1515 |
| 434 | 635 | 840 | 1313 | 1520 |
| 435 | 644 | 850 | 1315 | 1529 |
| 436 | 660 | 855 | 1320 | 1530 |
| 437 | 662 | 861 | 1321 | 1540 |

Military professionals, both officer and enlisted, actively engaged in RDTSE activities should be identified with the functions described in the above-referenced civilian job series. Generally, these jobs are referenced in Department of Defense Occupational Conversion Tables DoD 1312.1-0, DoD 1312.1-E under DoD groups 5 and 6 of DoD 1312.1-0, and various other groups of DoD 1312.1-E, published under the provisions of DoD Instruction 1312.1. Lawyers, accountants, chaplains, social workers and educators should be excluded.

3. Technicians--Generally nonprofessionals working on an RDT&E project or program in support of a professional. In the case of civilians, it will include, but will not necessarily be limited to, those holding positions that fail into the following categories of the Civil Service Occupational Groups and Series of Classes, General Schedule:

| 181 | 636 | 681 | 895 |
|-----|-----|-----|------|
| 404 | 645 | 682 | 1311 |
| 421 | 646 | 683 | 1316 |
| 455 | 647 | 698 | 1341 |
| 458 | 649 | 699 | 1371 |
| 462 | 650 | 802 | 1374 |
| 621 | 661 | 817 | 1521 |
| 622 | 667 | 818 | 1531 |
| 625 | 669 | 856 | 1541 |

Discretion will have to be exercised by each RDT&E activity in determining the number of military technicians. Generally, they should follow the guidelines established in defining civilian technicians and can be identified in DoD 1312.1-E.

- 4. Real Property Cost--Each reporting activity will be responsible for determining and reporting the cost of real property. This cost should be established in accordance with the guidelines and definitions in DoD Instruction 4165.14. This should also include the cost of installed equipment.
- 5. Equipment Cost--Each reporting activity will be responsible for determining and reporting the cost of personal property. This cost will include those costs incurred by the acquisition (including installation, when applicable) of all property other than real property. It will include personal property such as machine tools, environmental test equipment, furniture, laboratory equipment, vehicles, etc. Items having a unit cost of less than \$200 may be excluded.
- 6. Space--The data to be furnished should include only walled and roofed building space. It should not include such things as parking lots, open storage areas, lean-tos, etc. The source of data may be the annual report submitted in compliance with the requirements of DoD Instruction 4165.14.
- 7. In-House Obligations-Obligations reported under this category are for activities performed, or to be performed, by the organizational entity. Their work is carried on directly by their own personnel. Particular care should be taken to include under in-house performance the cost of supplies and equipment essentially of an off-the-shelf nature that are procured for use in in-house research and development, plus such things as travel, publications, and other types of services in support of in-house functions and M.P.A. Excluded from the in-house total are expenses for planning and administering programs by DoD personnel of contracts and grants for out-of-house work and M.C.A.
- 8. Out-of-House Obligations-Obligations reported under this category are for activities performed, or to be performed, by other than the organizational entity. Out-of-house performers may include other departmental or DoD organizational entities, industrial firms, educational institutions, not-for-profit institutions, and private individuals. Included as out-of-huse work are all expenses paid the out-of-house performers, as well as the expenses incurred in planning and administering these programs by personnel of the organizational entity. This would also include travel and other supporting services.
- 9. Annual Operating Cost--This should generally reflect the overhead cost of operating the laboratory or facility. It should include such things as costs of utilities, rents, janitorial services, guard and fire protection, support services such as supply personnel, printing, maintenance of buildings and grounds, etc. It should not include the salaries of direct labor personnel such as scientists, engineers, technicians, draftsmen, machinists, etc.

APPENDIX III

Selected Standard Abbreviations and Acronyms

GCA -- ground-controlled approach AAM -- air-to-air missile AAW -- antinin warfare HF -- high-frequency ADPE -- auto atic data-processing equipment IFF -- identification, friend or foe AEC -- Atomic Energy Commission IR -- Infrared AEDC -- Arnold Engineering Development AFMDC -- Air Force Missile Development MPT -- military potential test Center AFSC -- Air Force Systems Command NAF -- Naval Air Facility NASA -- National Aeronautics and Space AFWET -- Air Force weapons effective-Administration ness testing AMC -- Army Materiel Command NASC -- Naval Air Systems Command APG -- Aberdeen Proving Ground NAVORD -- Naval Ordnance Systems Command NAVSHIP -- Naval Ship Systems Command ARPA -- Advanced Research Projects NEMP -- nuclear electromagnetic Agency ASW -- antisubmarine warfare propagation AUS -- Army, United States PI -- product improvement POL -- petroleum, oil, lubricants BIS -- Board of Inspection and Survey BW -- biological warfare QA -- quality assurance QMDO -- qualitative material development CBR -- chemical, biological, radiological objective QMR -- qualitative materiel requirement CE -- Chief of Engineers, Army CG -- commanding general RDT&E -- research, development, test and CNO -- Chief of Naval Operations COMMEL -- communications electronics evaluation RF -- radio frequency RV -- reentry vehicle DA -- Department of the Army DASA -- Defense Atomic Support Agency SATS -- short airfield tactical support DoD -- Department of Defense SDR -- small development requirement DZ -- drop zone SI -- ship installation SP -- self-propelled ECM -- electronic countermeasures ST -- service test ECOM -- Electronics Command, Army ED -- engineering development EDT -- engineering development and test T&E -- test and evaluation TOTO -- Tongue-of-the-Ocean EEG -- electroencephalogram EKG -- electrocardiogram UDT -- underwater demolition team ELINT -- electronic intelligence ULMS -- Undersea Long-Range Missile EMP -- electromagnetic propagation System EMW -- electromagnetic warfare USATECOM -- U. S. Army Test and EOOC -- Explosive Ordnance Disposal **Evaluation Command** Center ET -- engineering test UTTAS -- utility tactical transport EW -- electronic warfare aircraft system USW -- undersea warfare UV -- ultraviolet FA -- field artillery

V/STOL -- vertical/short takeoff and landing

FBM -- fleet ballistic missile